

FILE NO.

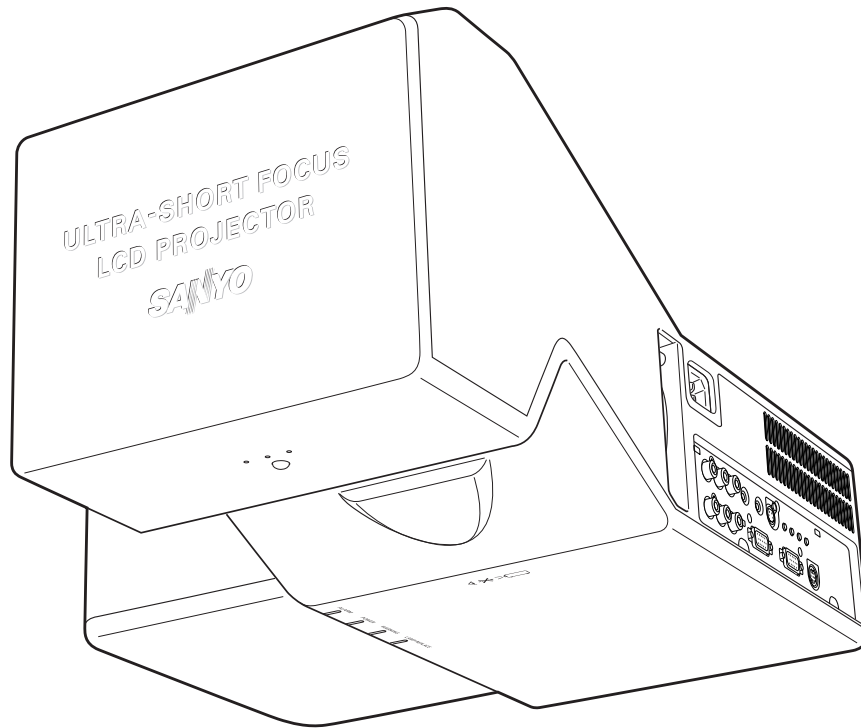
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XE50

U.S.A, Canada,
Europe, U.K,

Original Version



Chassis No. KL3-XE5000

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE

1 122 396 00 (KL3A)

1 122 397 00 (LL3A)

1 122 397 02 (LL3C)

REFERENCE NO. SM5110899-00

Contents

SERVICE MANUAL	1	Alarm circuit	70
Contents	2	IIC bus control circuit	71
Safety Instructions	3	Troubleshooting	72
Safety Precautions.....	3	Indicators and Projector Condition.....	72
Product Safety Notice	3	No Power	73
Service Personnel Warning	3	No Picture.....	74
Battery Replacement Notice.....	3	No Sound.....	75
Specifications.....	4	Control Port Functions	76
Circuit Protections.....	5	Scaler I/O Port Functions (PW190)	76
Fuse.....	5	IIC Bus D/A Converter Port Functions (M62334)	77
Lamp cover switch	6	Waveform	78
Thermal switch	6	IC Block Diagrams.....	79
Warning temperature and power failure protection.....	7	Electrical Parts List	85
Maintenance and Cleaning.....	8	Electrical Parts Location	86
Cleaning the Air Filter	8	Electrical Parts List.....	87
Resetting the Filter Counter	8	Mechanical Parts List.....	104
Cleaning the Projector Window	9	Cabinet Parts Location.....	104
Cleaning.....	10	Mechanical Parts List.....	108
Lamp Replacement.....	11	Diagrams & Drawings	A1
Lamp Replacement Counter	12	Parts description and reading in schematic diagram	A2
How to check Lamp Used Time	13	Schematic Diagrams	A3
Security Function Notice	14	Printed Wiring Board Diagrams.....	A9
Security Function Disable.....	14	Pin description of diode, transistor and IC.....	A13
Antitheft Alarm Function Disable.....	14	Note on Soldering.....	A14
Mechanical Disassembly.....	15		
Optical Parts Disassembly	28		
Adjustments.....	35		
Adjustments after Parts Replacement	35		
Optical Adjustments	36		
Contrast adjustment.....	36		
Integrator lens adjustment	37		
Relay lens-Out adjustment	38		
Projection Lens focus adjustment	39		
Electrical Adjustments.....	41		
Service Adjustment Menu Operation	41		
Circuit Adjustments	42		
Test Points and Locations	47		
Service Adjustment Data Table	48		
Chassis Block Diagram.....	64		
Chassis over view.....	64		
System control.....	65		
Lamp control.....	66		
Audio circuit	67		
Power supply & protection circuit	68		
Fan control circuit.....	69		

Safety Instructions

Safety Precautions

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Battery Replacement Notice

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

Replace Battery With SANYO Electric Co., Ltd., Part No. 645 089 8587 Only. Use of Another Battery May Present A Risk Of Fire or Explosion.

Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	14.72" x 7.75" x 19.49" (374 mm x 196.8 mm x 495 mm) (Not including projections)
Net Weight	15.86 lbs (7.2 kg)

Panel Resolution

LCD Panel System	0.8" P-Si TFT Active Matrix type
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 60" to 80"
Projection Lens	F 1.85 lens with f 4.83 mm with manual focus
Distance (Screen - Projector)	-0.131' – 0.265' (-4.0 cm – 8.1 cm)
Projection Lamp	275 W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Component Input Jacks	RCA Type x 3
Computer Input 1 Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
Audio Input Computer Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	2.0 W RMS
Built-in Speaker	1 speaker, ø2.0" (50 mm)

Power

Voltage and Power Consumption	AC 100–120 V (3.2 A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (1.6 A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)
-------------------------------	---

Operating Environment

Operating Temperature	41°F–95°F (5°C–35°C)
Storage Temperature	14°F–140°F (-10°C–60°C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	11.5' (3.5 m) / ±90°
Dimensions	1.9" (W) x 0.87" (H) x 5.7" (D) (49 mm x 22 mm x 145.3 mm)
Net Weight	3.53 oz (100 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

■ Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

A fuse is located inside of the projector. When the POWER indicator is not lighting, the fuse may be opened. Check the fuse as following steps.

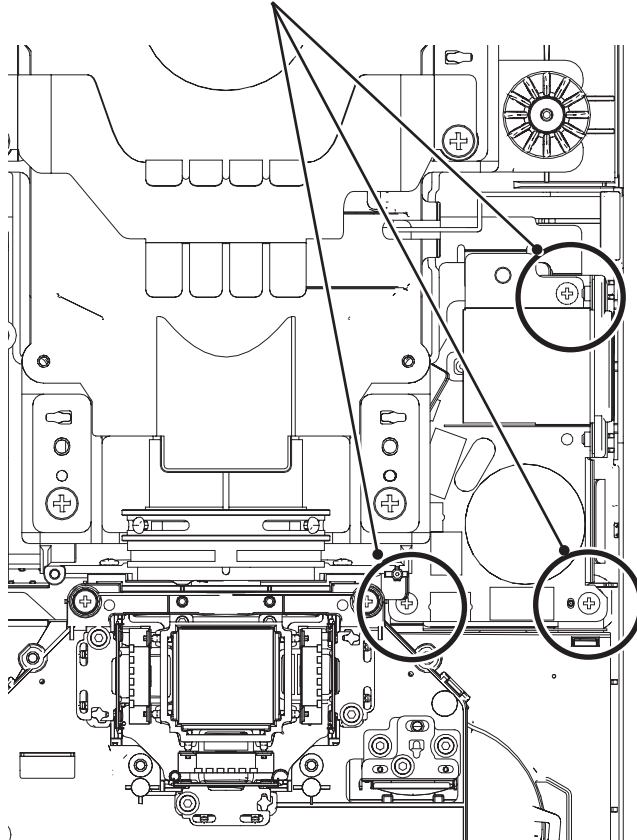
The fuse should be used with the following type;

**Fuse Part No.: 323 025 1204
TYPE 8A 250V FUSE
LITTLE FUSE INC. TYPE 215008**

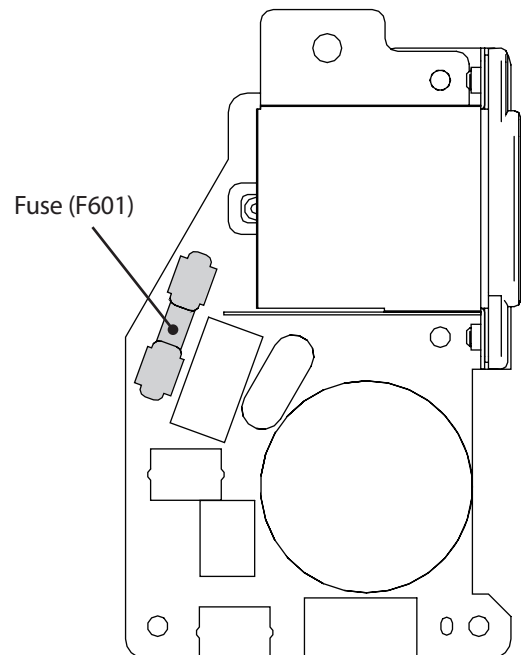
How to replace the fuse

1. The fuse is placed on the line filter board under the main board.
Remove the cabinet top and main board. (Refer to Fig.)
2. Take the fuse off, and replace the new one with the specified type.

Remove the 3 screws and remove the line filter board

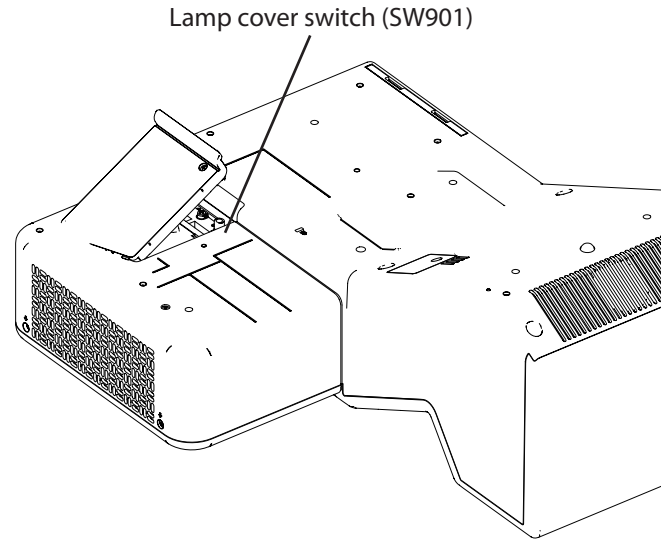


Line filter board



Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100°C, the thermal switch opens to stop the operation of the power supply circuit.

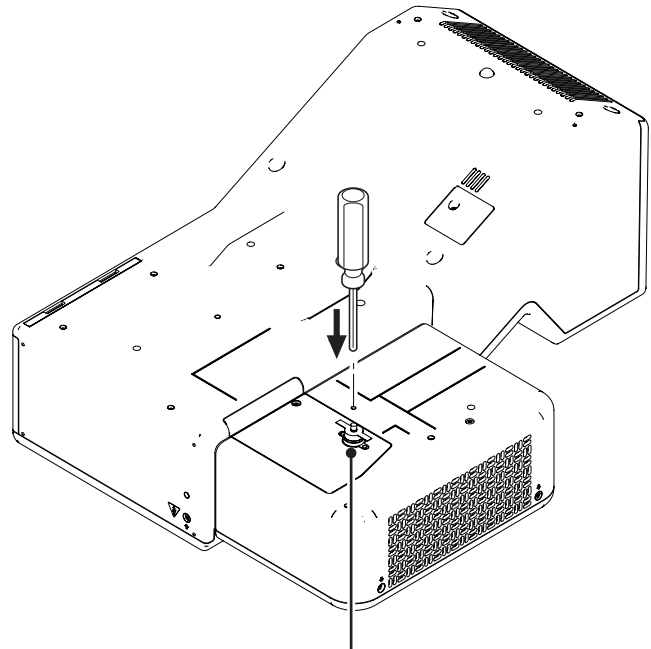
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet from the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:

Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" in the Chassis Block Diagram section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

The projector is shut down and the WARNING indicator lights red.

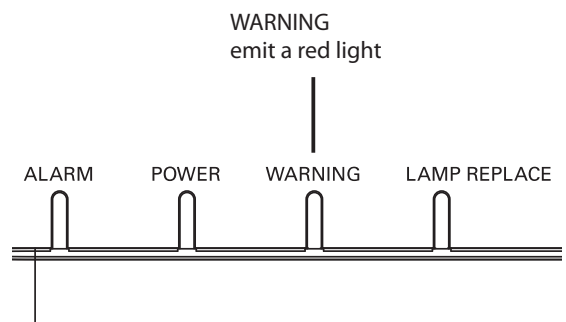
When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, it may defect the cooling fans or power supply circuits.



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Indicators



■ Maintenance and Cleaning

Cleaning the Air Filter

The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in a buildup of internal heat and adversely affects the life of the projector. Clean the air filter by following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
- 2 Turn over the projector and remove the air filter by pulling the latches upward.
- 3 Clean up the dust on the projector and around the air vents.
- 4 Gently clean the filter by using a brush or blower.

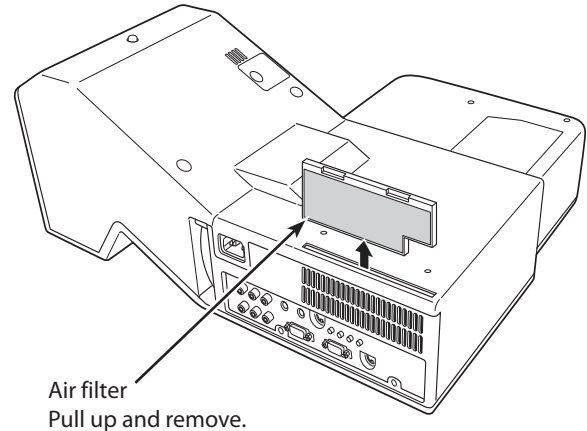
WARNING: Do not wash the filter with water and any other liquid matter. Otherwise the filter may be damaged.

- 5 Reinstall the filter into the projector properly.
- 6 Reset the filter counter in the Setting Menu. See "Resetting the Filter Counter" below.



CAUTION

Do not operate the projector with the air filter removed. Dust may accumulate on the optical elements degrading picture quality. Do not put anything into the air intake vents. Otherwise it may result in malfunction of the projector.



✓Note:

- When cleaning the air filter, protect the infrared remote receiver with a soft cloth to avoid damaging it.
- If the filter is heavily clogged and unable to clean, replace it with a new one. Consult your dealer for details.

Replacement Filter Part No.: 610 335 4057

RECOMMENDATION

We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

When you use the projector under dusty or smoky conditions, dust may accumulate on the lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image.

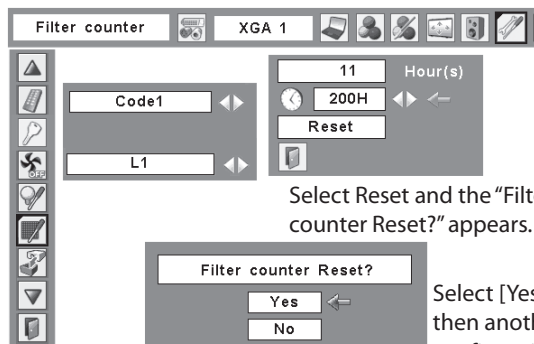
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filter.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



Select Reset and the "Filter counter Reset?" appears.

Select [Yes], then another confirmation box appears.

Select [Yes] again to reset the Filter counter.

Cleaning the Projection Window

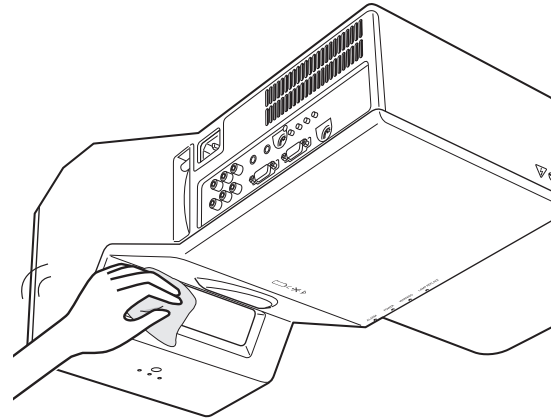


This projector is equipped with a projection window.

Do not rub the projection window with a hard fiber cloth or hit it with something hard to prevent the projection window from scratching. Do not use a chemical cleaner (liquid and solid) to avoid deteriorating the projection window.

Unplug the AC power cord before cleaning.

First, remove the dust with a blower. Then gently wipe the projection window surface. Use a cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner. Do not use abrasive cleaners, solvents, or other harsh chemical cleaners to avoid damaging the projection window.



Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When it is heavily soiled, use a small amount of mild detergent and finish with the cleaning cloth. Avoid excessive use of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate case to avoid dust and being scratched.

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to "Mechanical Disassemblies".
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to "Mechanical Disassemblies".
2. Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

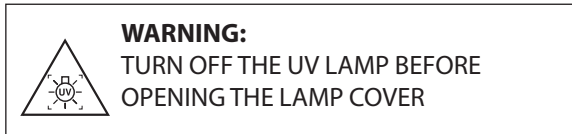
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ Lamp Replacement

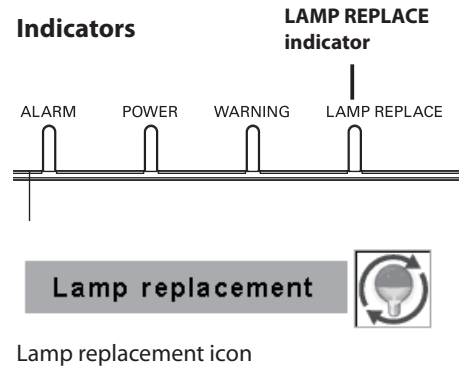
Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.



✓ **Note:**

- The Lamp replacement icon will not appear when the Display function is set to "Off", during "Freeze", or "No show".



CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.



CAUTION

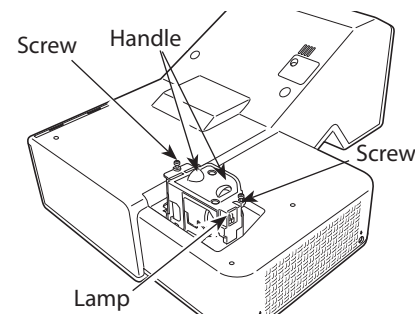
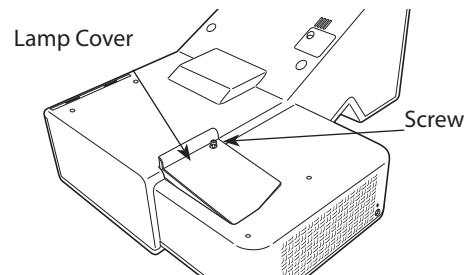
For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2** Remove the screw from the lamp cover and open the cover.
- 3** Loosen the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
- 4** Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.
- 5** Connect the AC power cord to the projector and turn on the projector.
- 6** **Reset the lamp counter.**
See "Lamp Replacement Counter" on the next page.

✓ **Note:**

- When replacing the projection lamp, protect the infrared remote receiver with a soft cloth to avoid damaging it.



ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- **Model No. of your projector : PLC-XE50**
- **Replacement Lamp Type No.: POA-LMP121**

(Service Parts No. 610 337 9937)

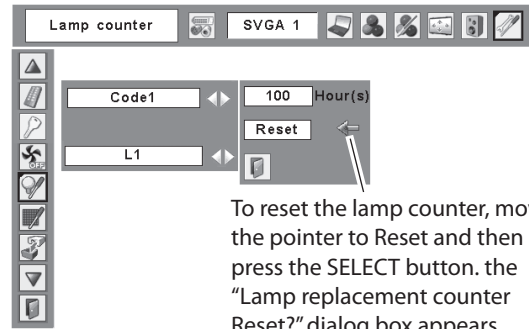
Lamp Replacement Counter

Be sure to reset the Lamp replacement counter after the lamp is replaced. When the Lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

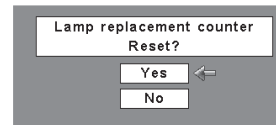
- 1 Turn the projector on and press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red frame pointer to Lamp counter and then press the SELECT button. The first dialog box appears showing the total accumulated lamp time and reset option. If you select Reset, "Lamp replacement counter Reset?" appears. Select "Yes" to continue.
- 3 Another confirmation dialog box appears, and select "Yes" to reset the Lamp replacement counter.

✓**Note:**

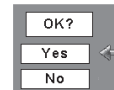
- Do not reset the Lamp replacement counter without implementing lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.



To reset the lamp counter, move the pointer to Reset and then press the SELECT button. the "Lamp replacement counter Reset?" dialog box appears.



Select "Yes," then another confirmation box appears.



Select "Yes" again to reset the lamp counter.



LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down.
(Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock, or degradation as a result of hours of use, as it comes to the end of life. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

Total lamp used time (Corresponding value) = $T_{\text{normal}} + (T_{\text{high}} \times 1.5)$

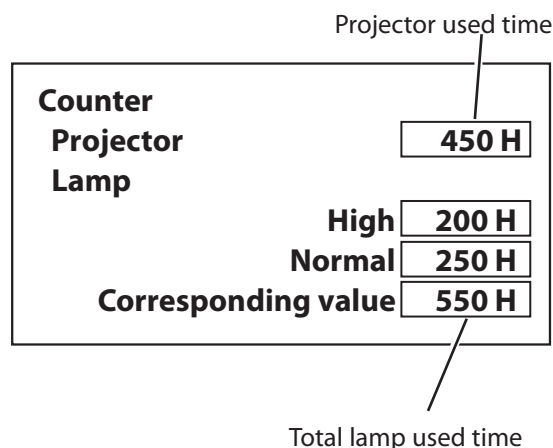
T_{normal} : used time in the Normal mode

T_{high} : used time in the High mode

You can check the lamp used time following to the below procedure.

1 Press and hold the **ON/STAND-BY** button on the Remote Control Unit for more than 20 seconds.

2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



■ Security Function Notice

Security Function Disable

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. Initial code: "4321"

Resetting procedure

- 1 Disconnect the AC power cord from the AC outlet.
- 2 As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.

This is complete the resetting of the security function. The PIN code lock and Logo PIN code lock are reset as the initial PIN code at the factory and the Key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Antitheft Alarm Function Disable

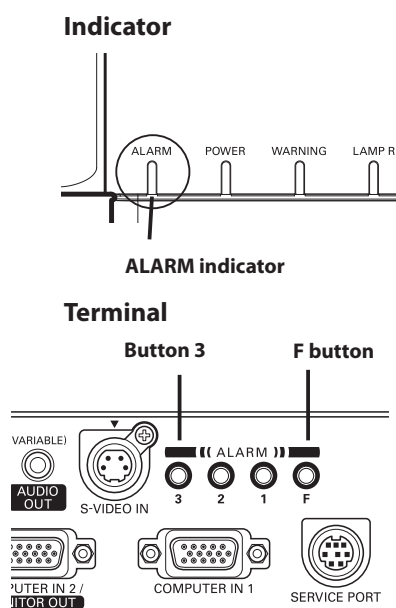
This projector provides an Antitheft alarm function which works when detecting a vibration to protect the projector from a suspicious person.

Release the alarm setting

Press the **F button** and enter the four-digit PIN code number within about 10 seconds. (The default PIN code is set to "1111.") When the alarm is released, you will hear a high-pitched confirmation sound.

When you enter an incorrect PIN code, you will hear a low-pitched sound. If you enter an incorrect PIN code three times in a row, the alarm will start ringing.

If you forget the PIN code to release the alarm setting, press and hold the **button 3** and **F button** at the same time for more than 3 seconds.



■ Mechanical disassemblies

Disassemble should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

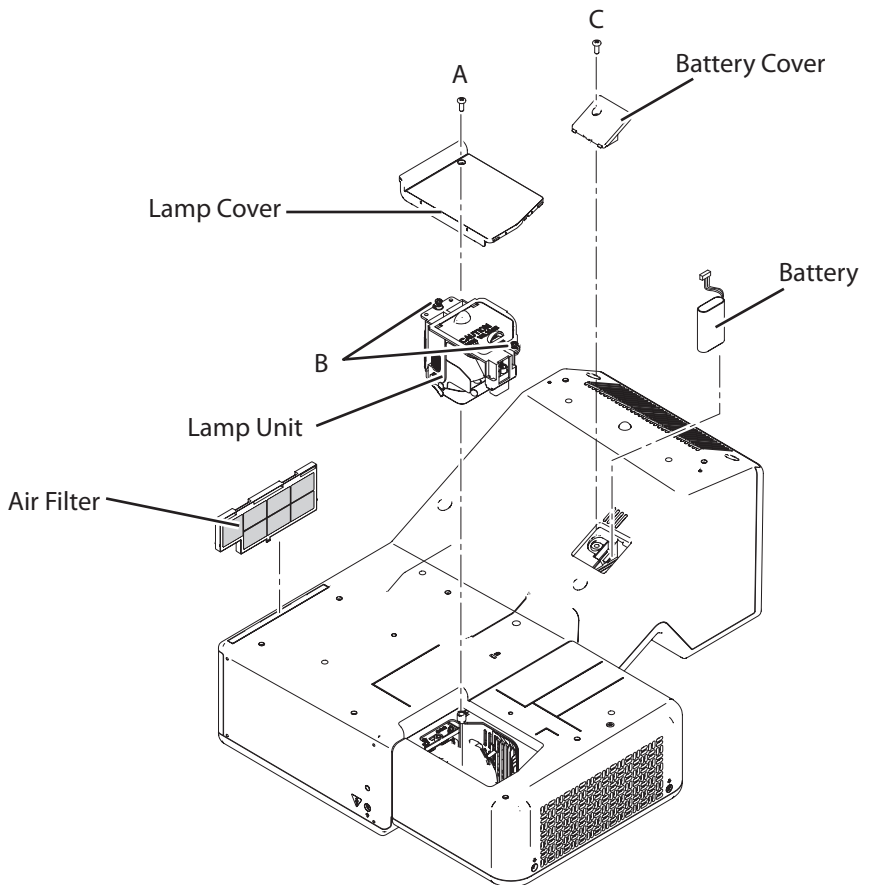
The parts and screws should be placed exactly the same position as the original otherwise it may cause lose of performance and product safety.

The wiring method of the leads and ferrite cores should be returned exactly the same state as the original, otherwise it may cause lose of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
Tapping screw	Machine screw
	

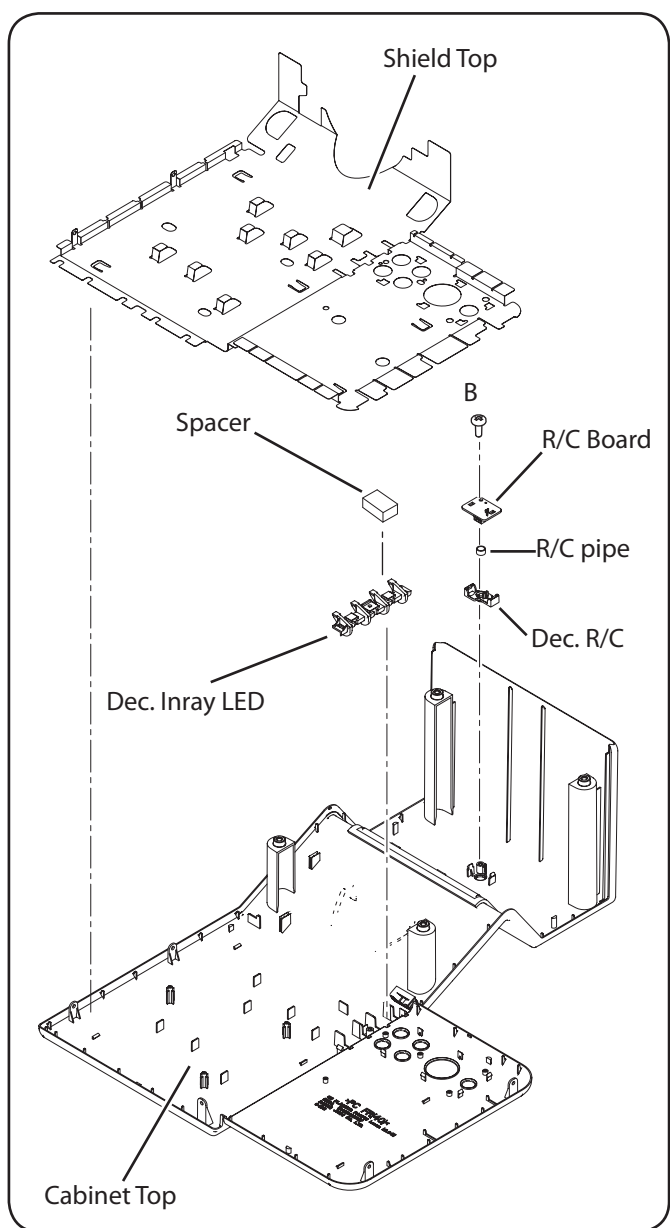
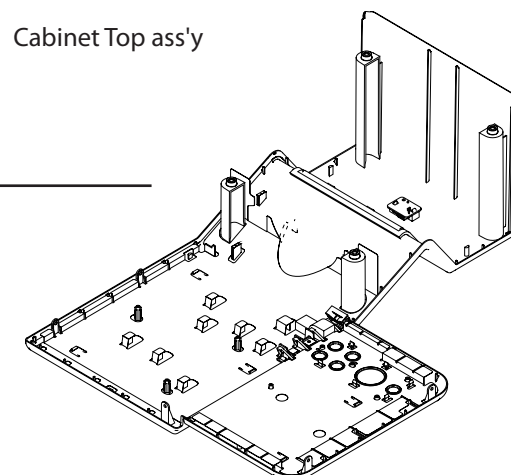
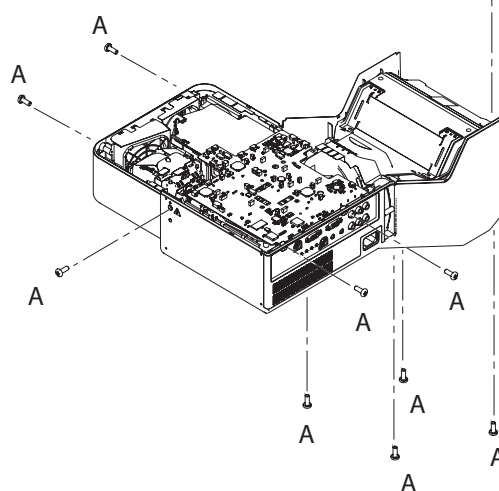
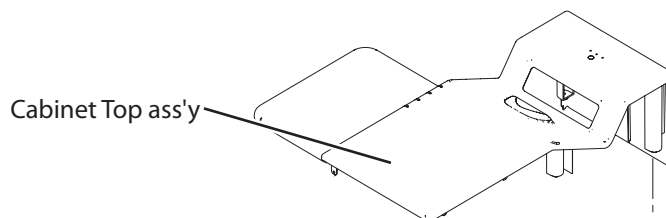
1 Lamp Unit and Alarm Battery removal.

1. Remove the screw-A(M3x8) and remove the Lamp cover.
2. Loosen the 2 screws-B and remove the Lamp unit.
3. Remove the screw-C (M3x8) and remove the Battery cover.
4. Remove the Battery.
5. Remove the Air Filter upward.



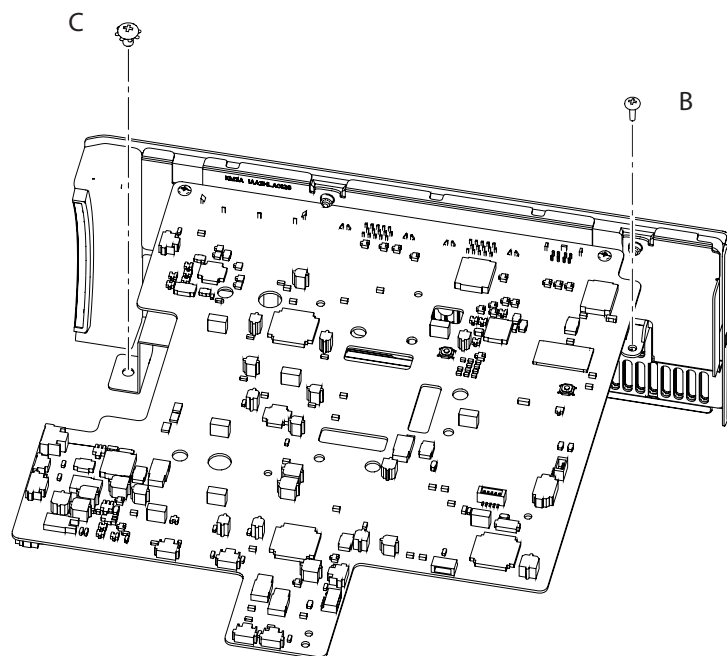
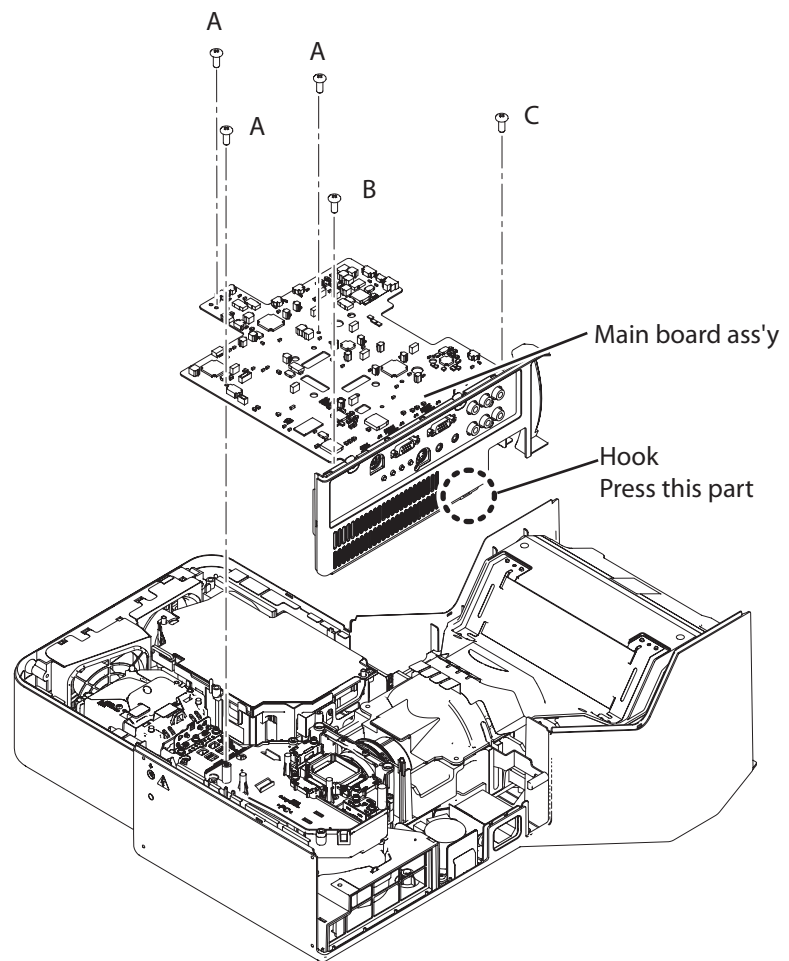
2 Cabinet top ass'y removal.

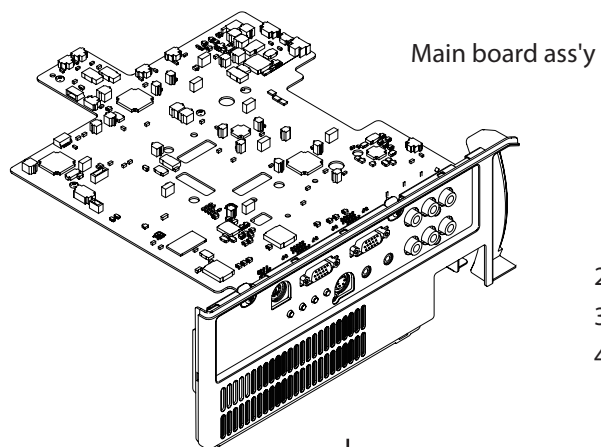
1. Remove the 9 screws-A(M3x8) and remove the Cabinet top ass'y.
2. Remove the screw-B(T3x8), remove the R/C board, R/C pipe and remove the Decoration R/C.
3. Remove the Spacer, Decoration Inray LED and Shield top.



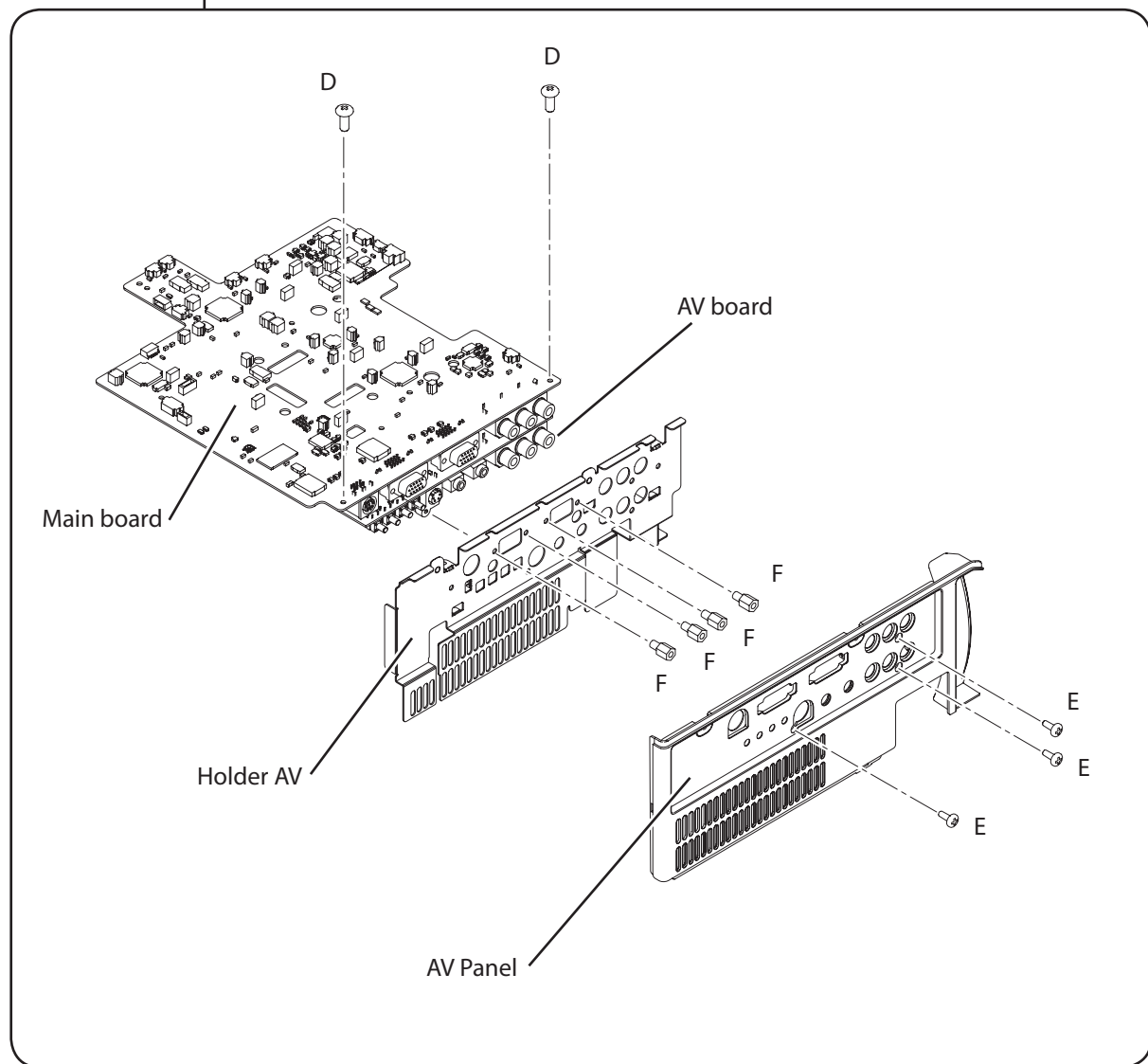
3 Main Board ass'y removal.

1. Remove the 3 screws-A(M2.5x6), screw-B(T3x8), screw-C(M4x6) and remove the Main board ass'y.



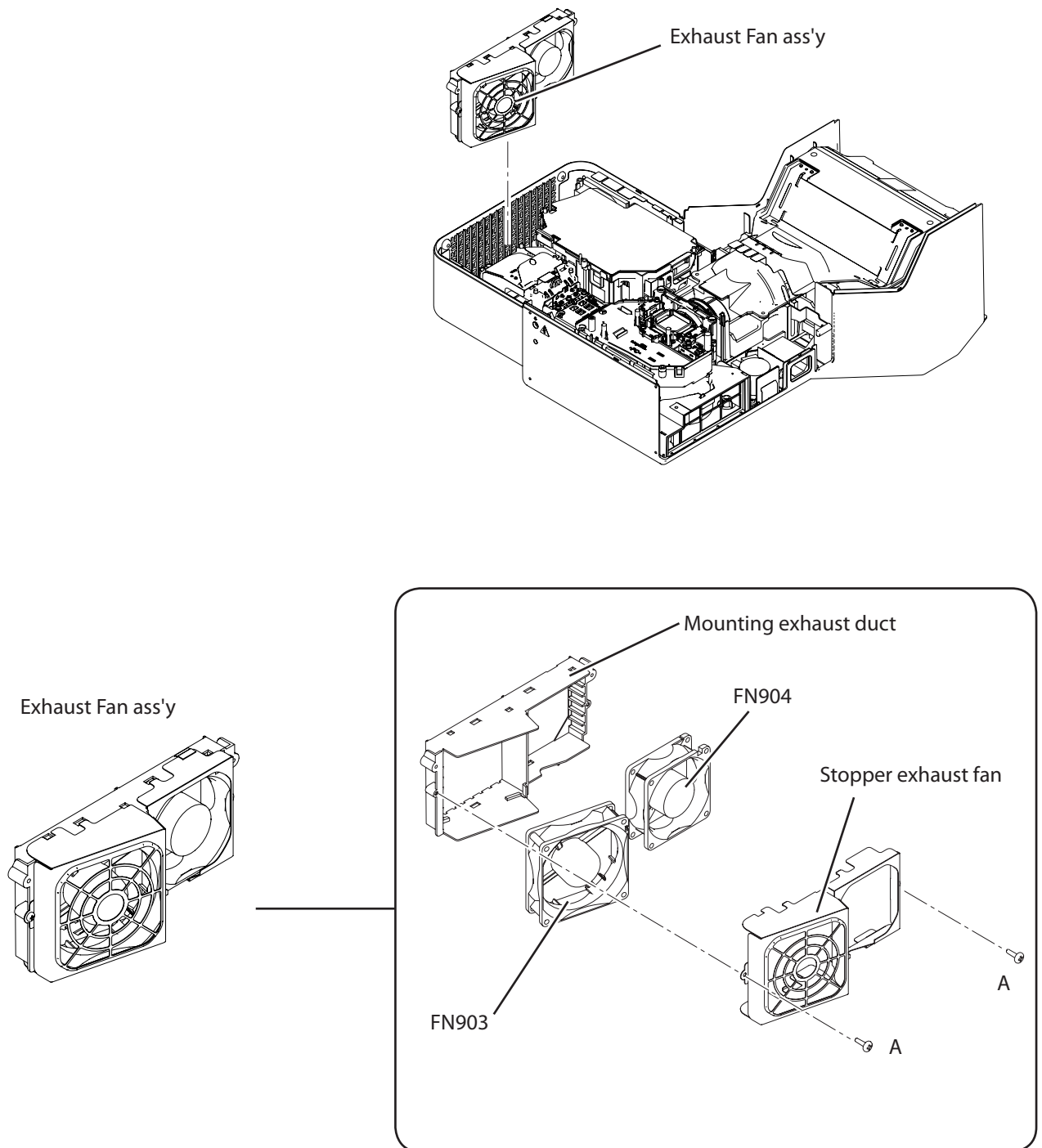


2. Remove the 2 screws-D(M2.5x6).
3. Remove the 3 screws-E(T3x6) and AV panel.
4. Remove the 4 nuts-F and Holder AV.



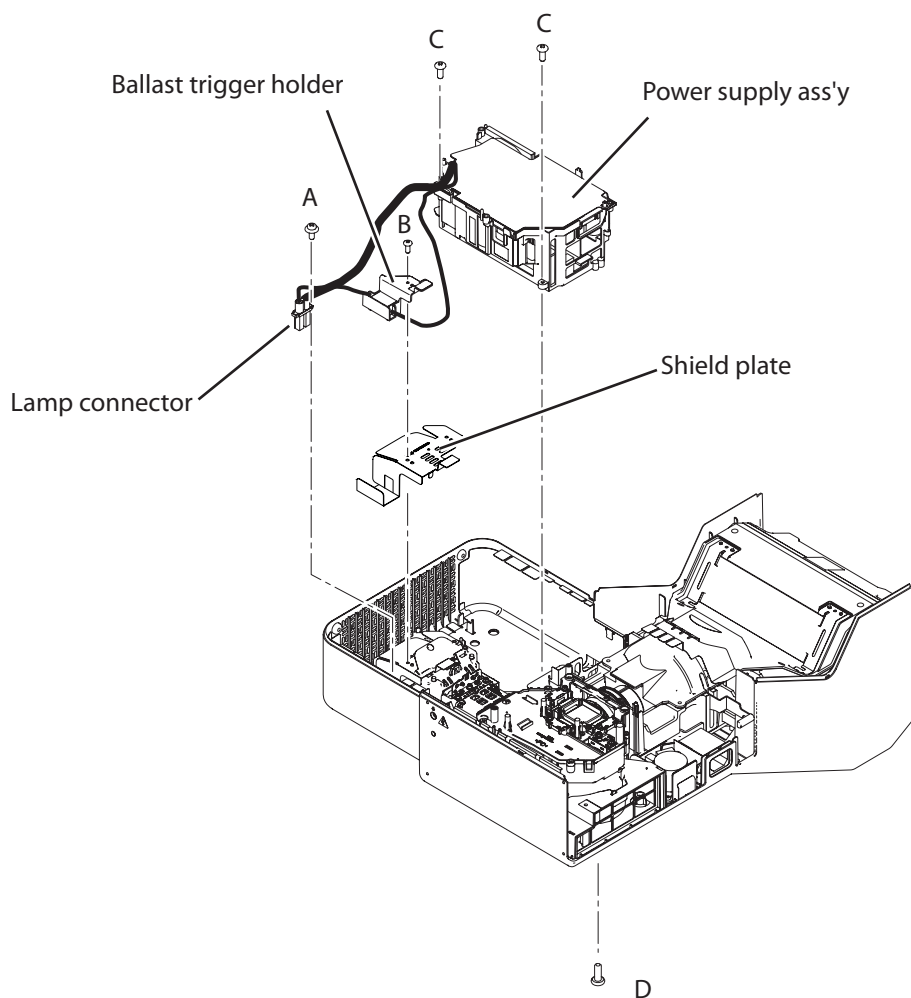
4 Exhaust Fan ass'y removal.

1. Remove the exhaust Fan ass'y(FN903, FN904) upward.
2. Remove the 2 screws-A(T3x8), remove the stopper exhaust Fan and remove the FN903, FN904.

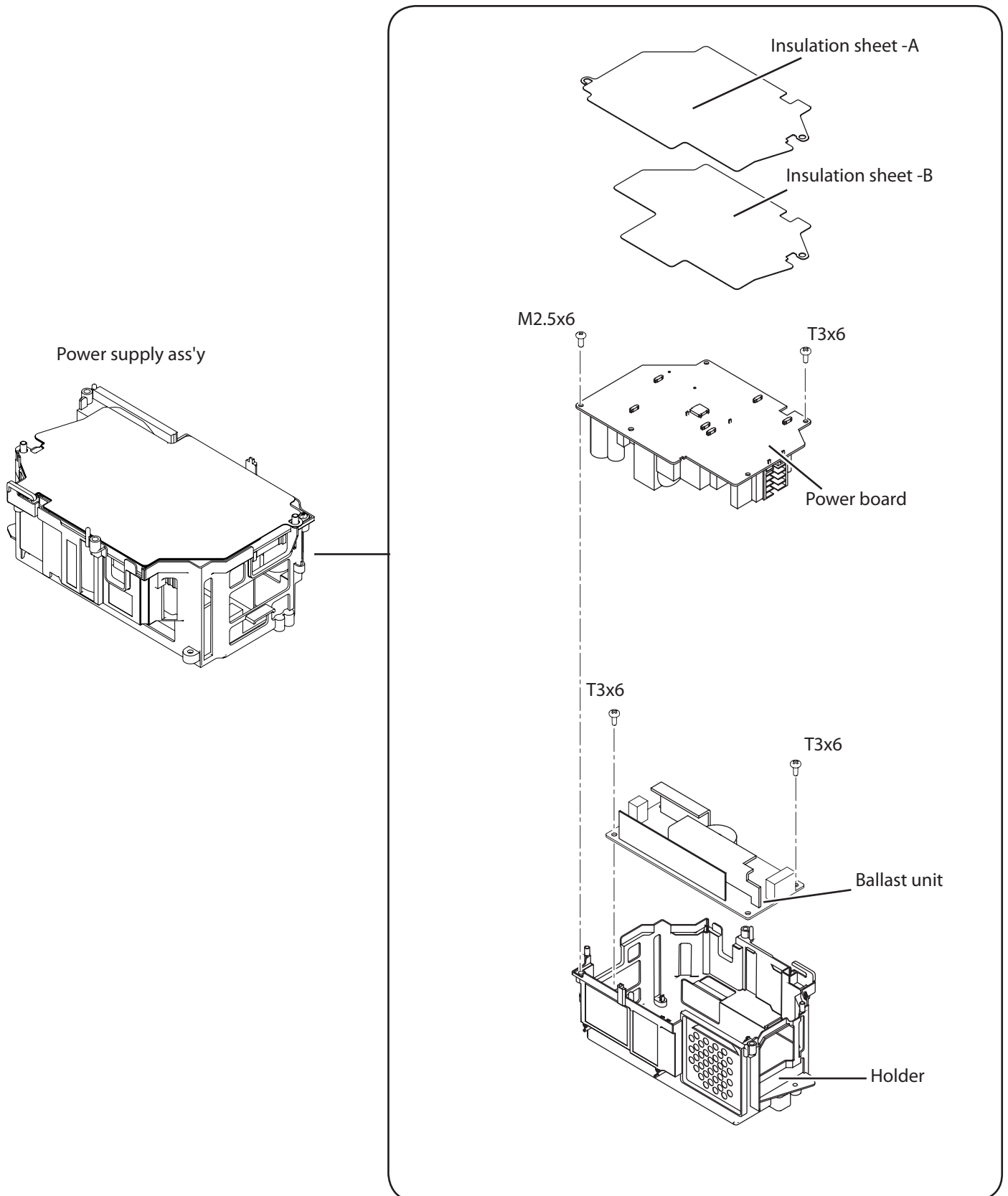


5 Power supply ass'y removal.

1. Remove the screw-A(M3x8) and remove the Lamp connector.
2. Remove the screw-B(M2.5x6), remove the Ballast trigger holder and shield plate.
3. Remove the 2 screws-C(T3x8), remove the screw-D(T3x8) and remove the Power Supply ass'y.

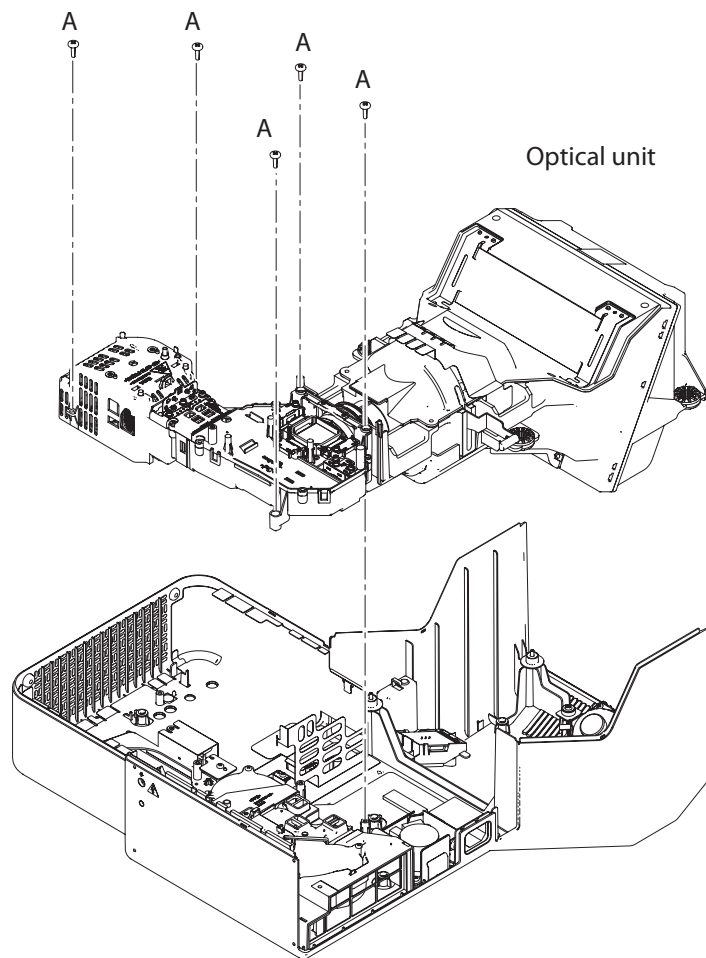


Power supply ass'y disassemble.



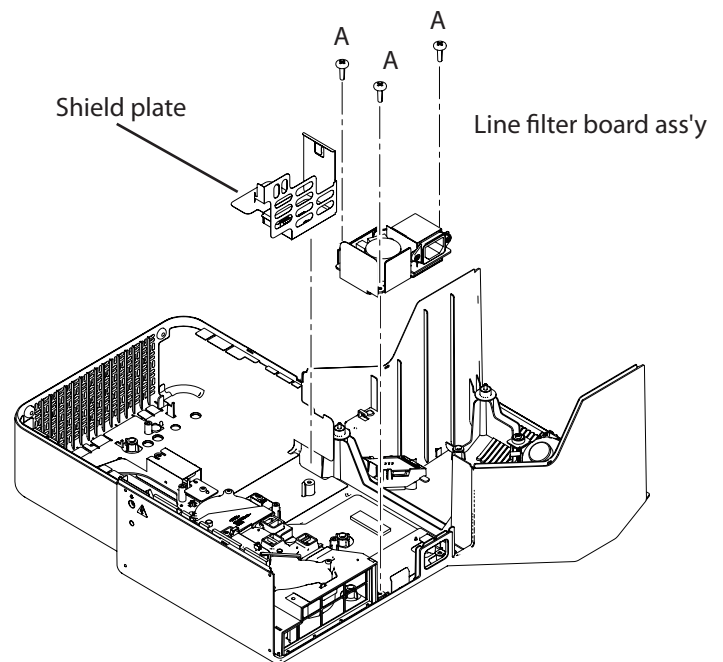
6 Optical unit removal.

1. Remove the 5 screws-A(T3x8) and remove the Optical unit.

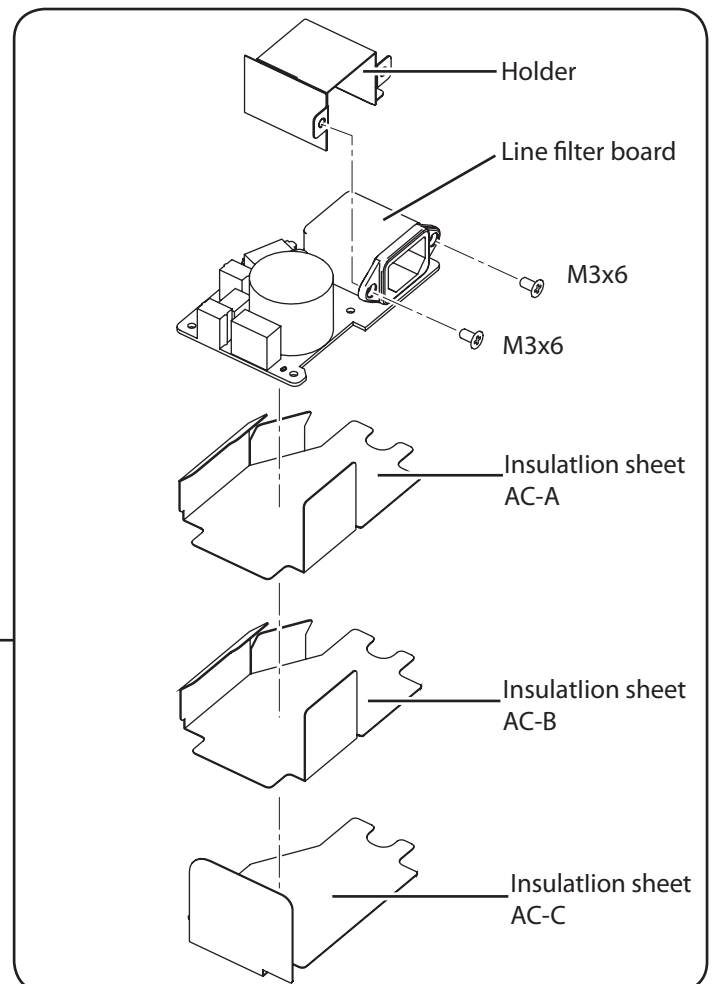
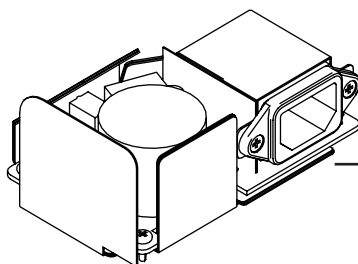


7 Line filter board removal.

1. Remove the 3 screws-A(T3x8) and remove the Line filter board ass'y.
2. Remove the Shield plate.

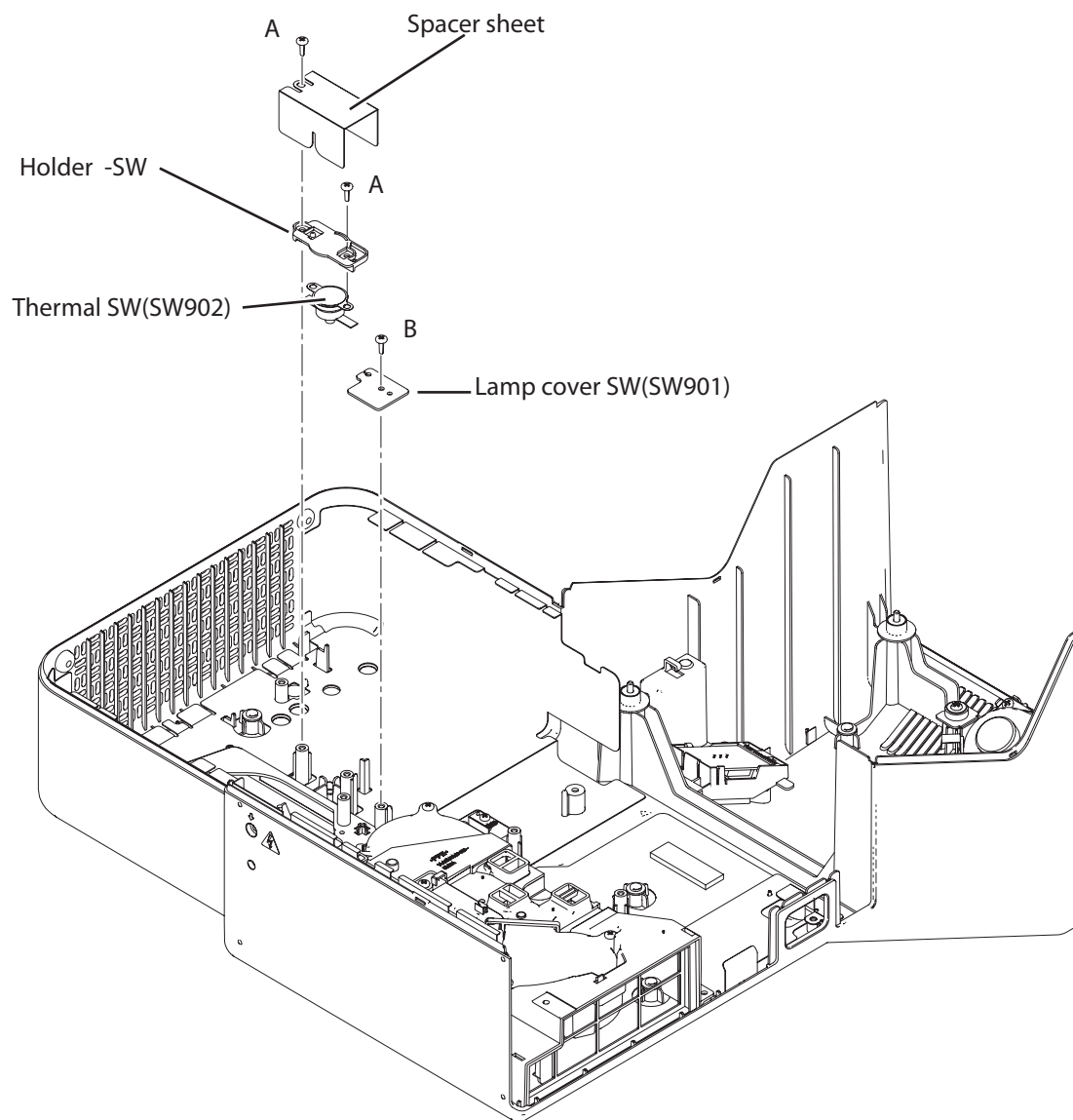


Line filter board ass'y



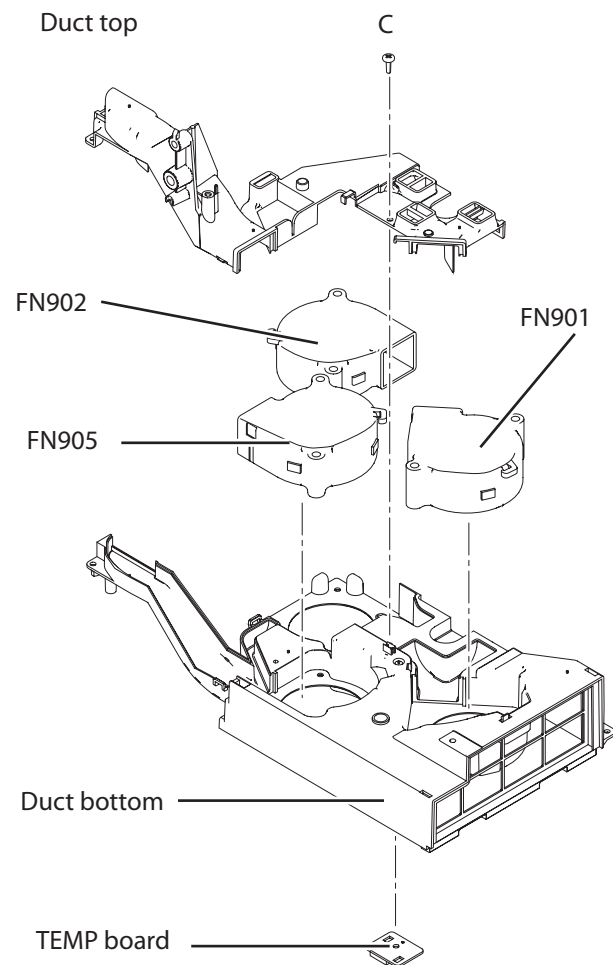
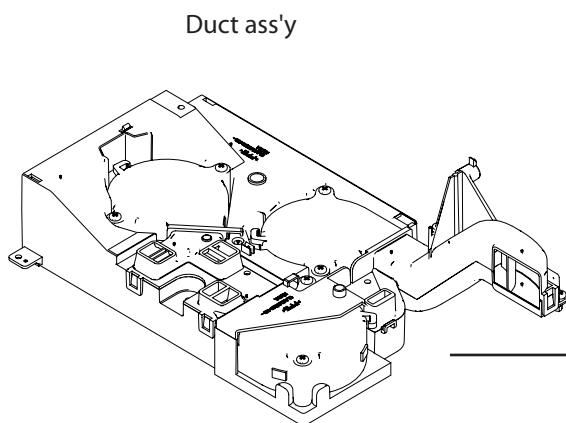
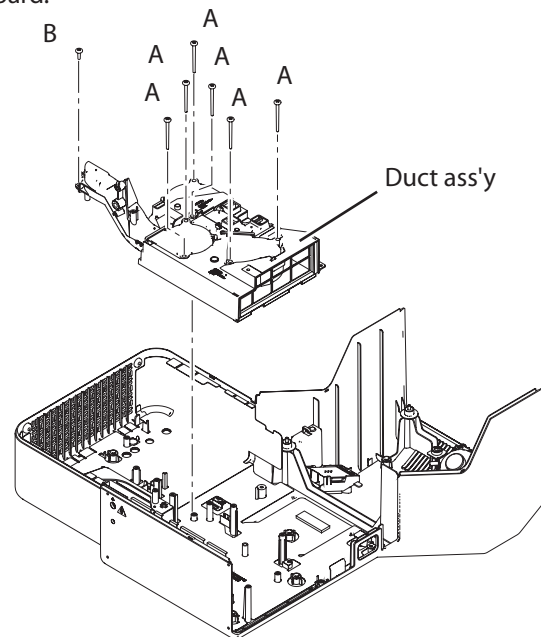
8 Lamp Cover Switch removal.

1. Remove the 2 screws-A(T3x8), remove the Spacer sheet, remove the Holder-SW and remove the Thermal Switch (SW902)
2. Remove the screw-B(T3x8) and remove the Lamp cover switch (SW901).



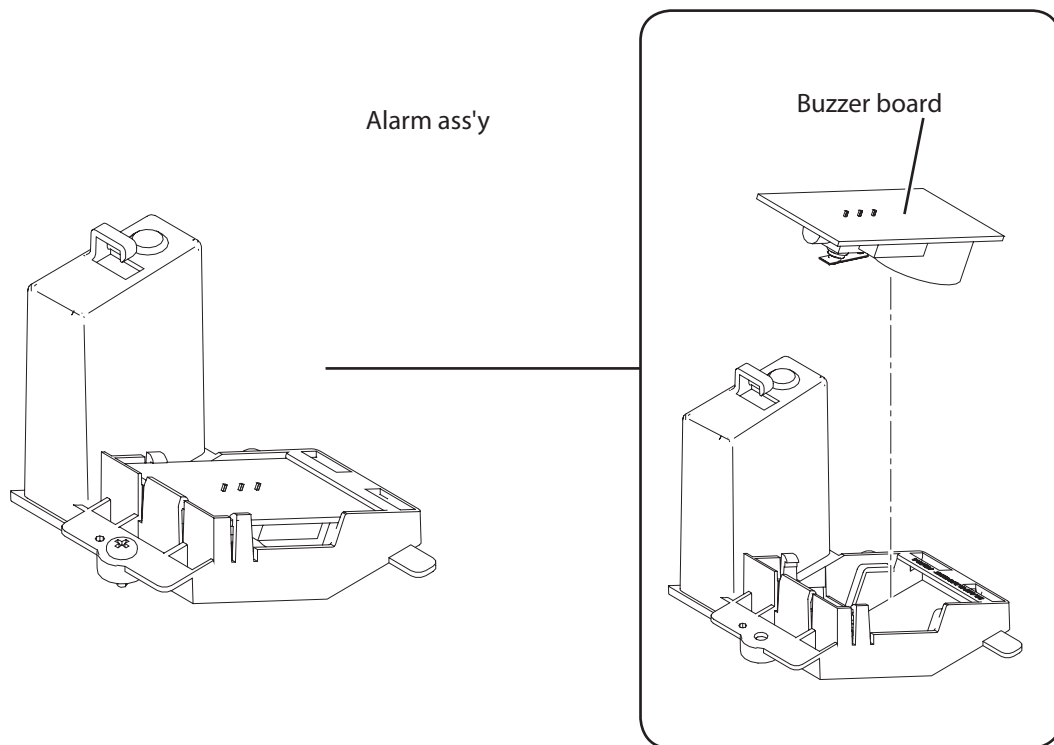
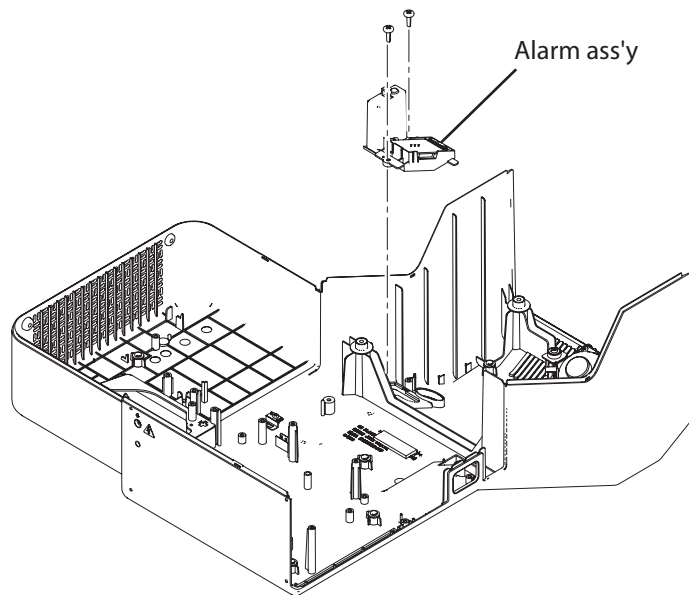
9 Duct ass'y removal.

1. Remove the 6 screws-A(T3x30), remove the screw-B(T3x8) and remove the Duct ass'y.
2. Remove the screw-C(T3x8) and remove the Duct-top.
3. Remove the Fans(FN901, FN902, FN905) and Temp board.



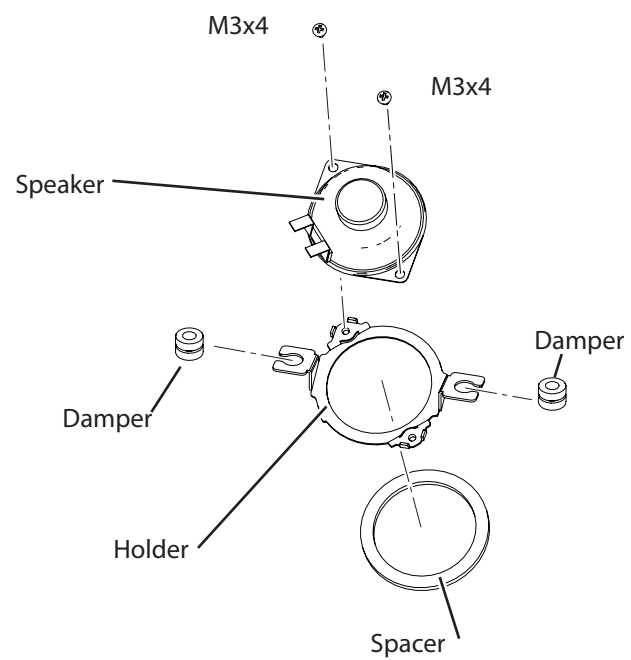
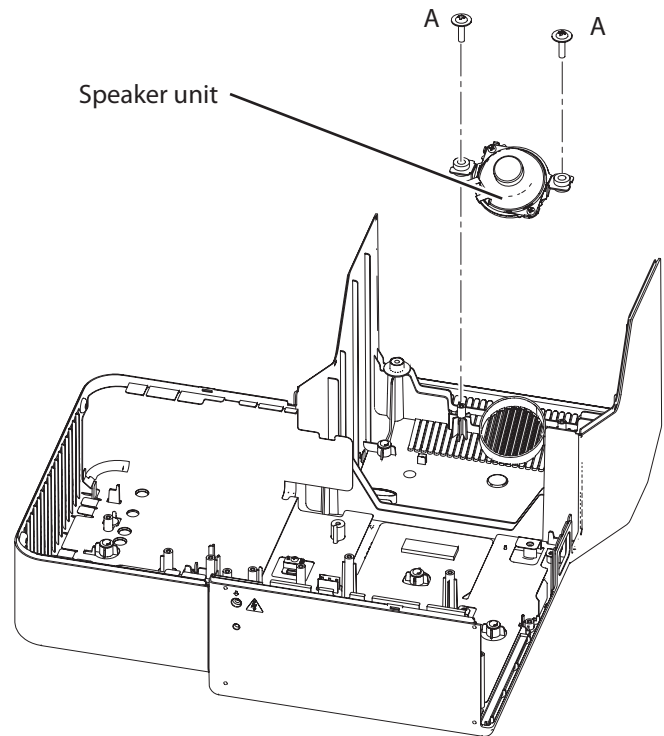
10 Alarm ass'y removal.

1. Remove the 2 screws(T3x8) and remove the Alarm ass'y.

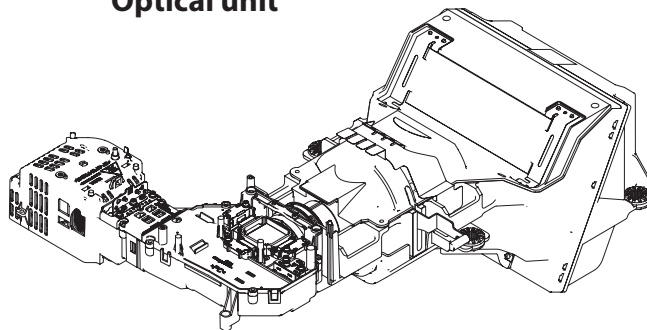


11 Speaker unit removal.

1. Remove the 2 screws-A (T3x12) and remove the speaker unit.

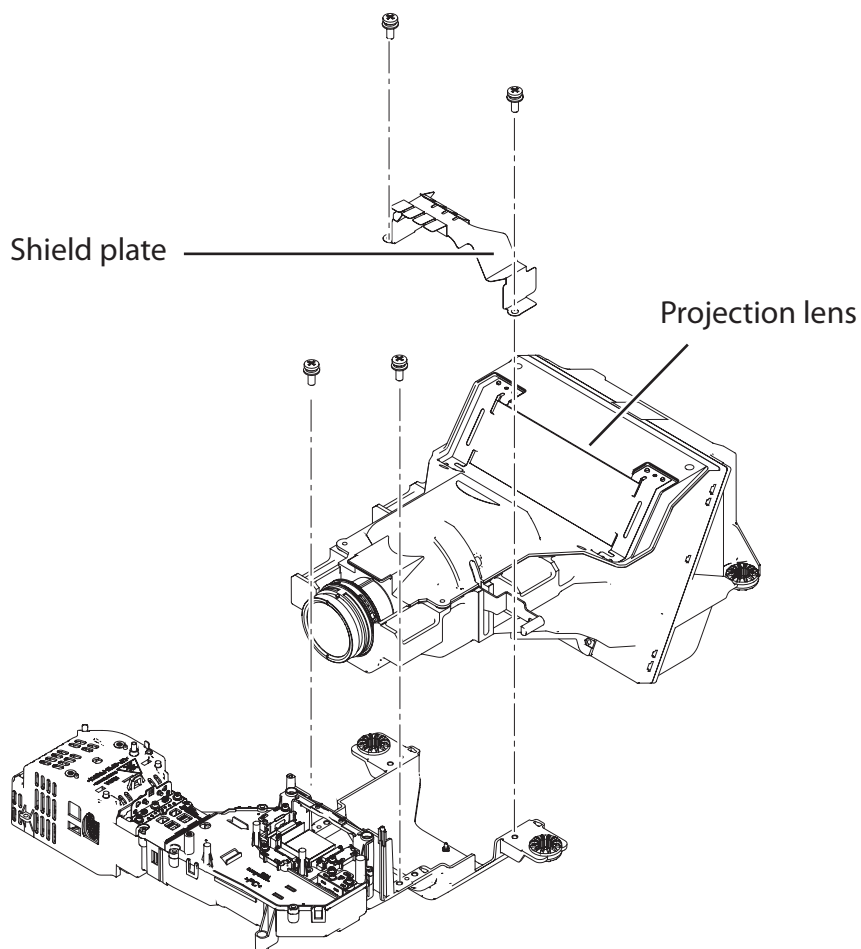


Optical unit



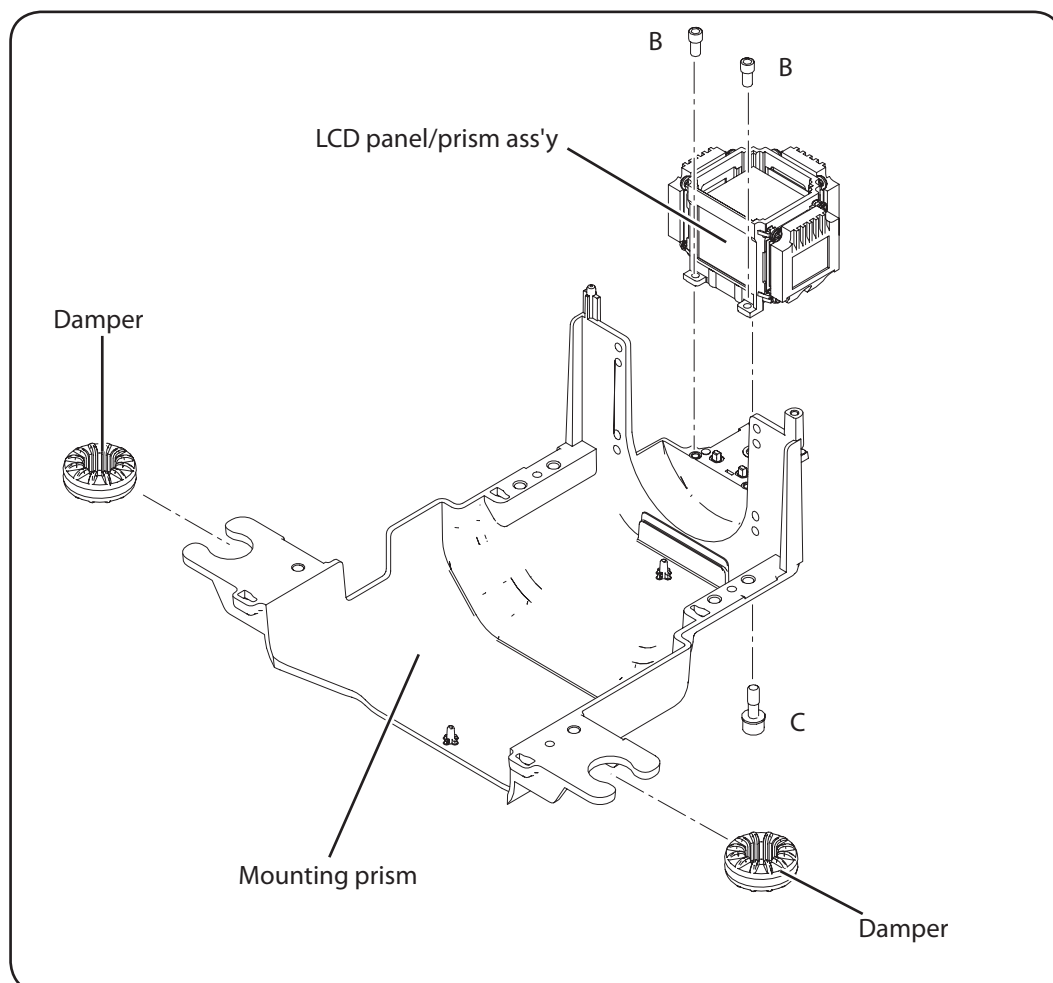
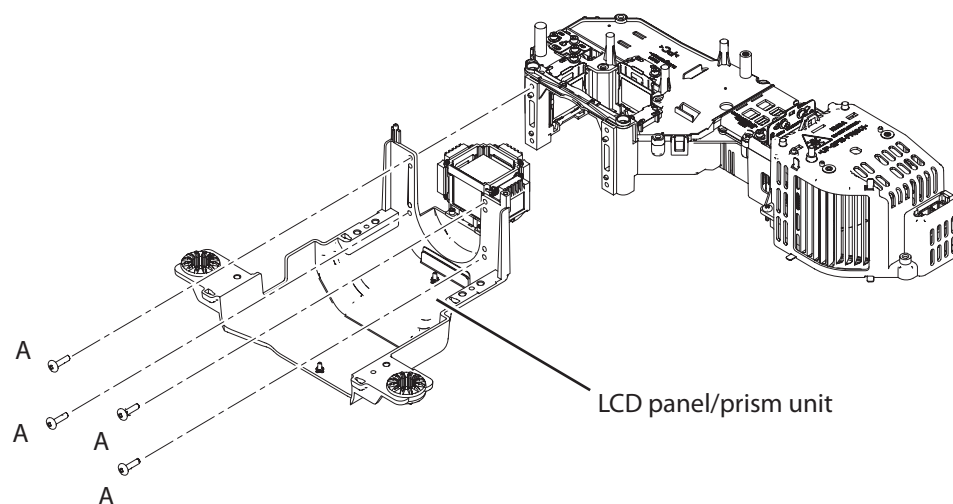
12 Projection lens removal.

1. Remove the 4 screws (M4x12), remove the shield plate and remove the projection lens.

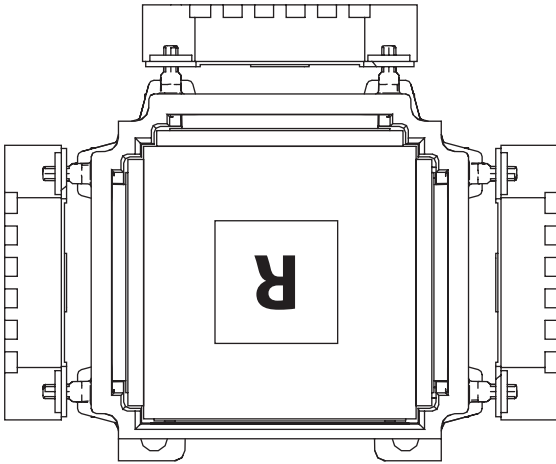


13 LCD panel/prism ass'y removal.

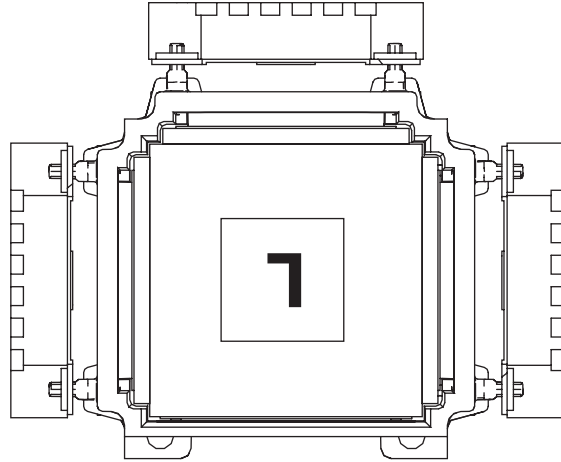
1. Remove the 4 screws-A (M2.5x8) and remove the LCD panel/prism unit.
2. Remove the 2 screws-B (M2.5x4), remove the screw-C (M3x10) and remove the LCD panel/prism ass'y.



R-Type LCD Panel/Prism Ass'y



L-Type LCD Panel/Prism Ass'y



There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.

When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.

The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment", "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

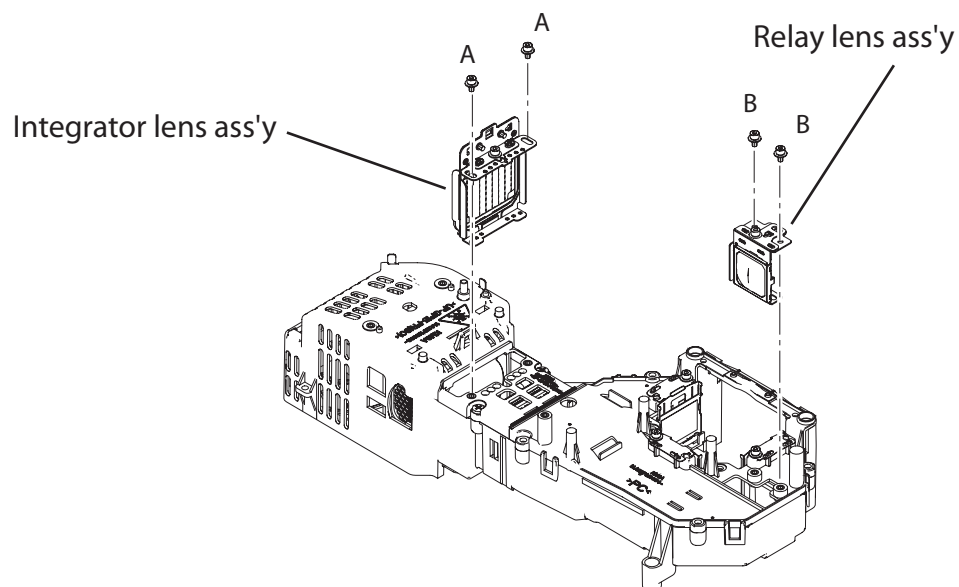
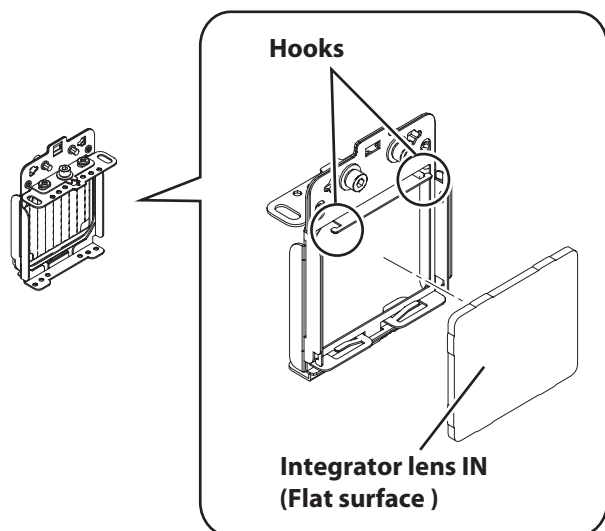
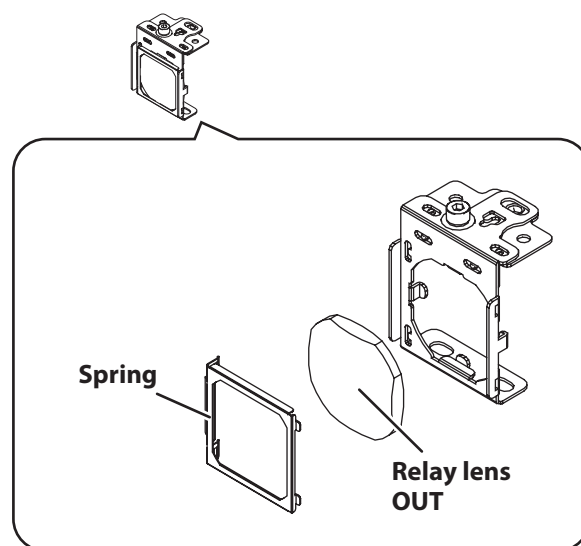
If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "PROJECTOR SERVICE TOOL". The software will be supplied separately and can be ordered as follows;

PROJECTOR SERVICE TOOL Ver. 4.10

Service Parts No. 610 337 8787

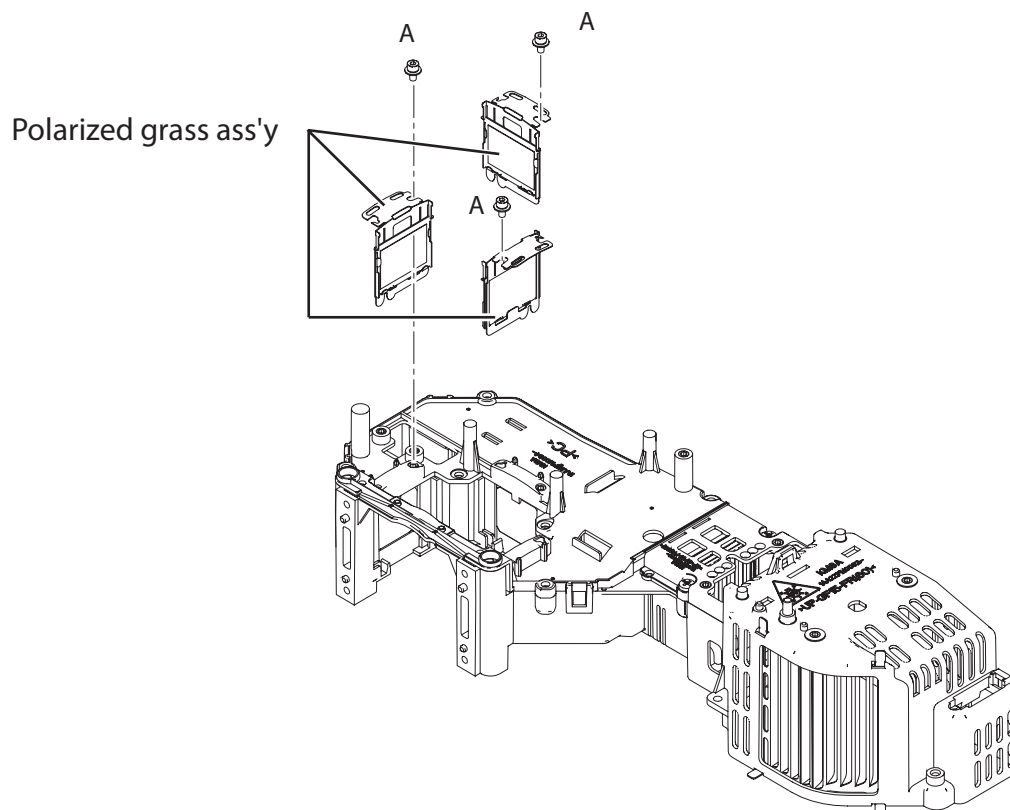
14 Integrator Lens ass'y and Relay Lens ass'y removal.

1. Remove the 2 screws-A (M2.5x5) and remove the Integrator Lens ass'y.
2. Remove the 2 screws-B (M2.5x5), remove the Relay Lens ass'y.

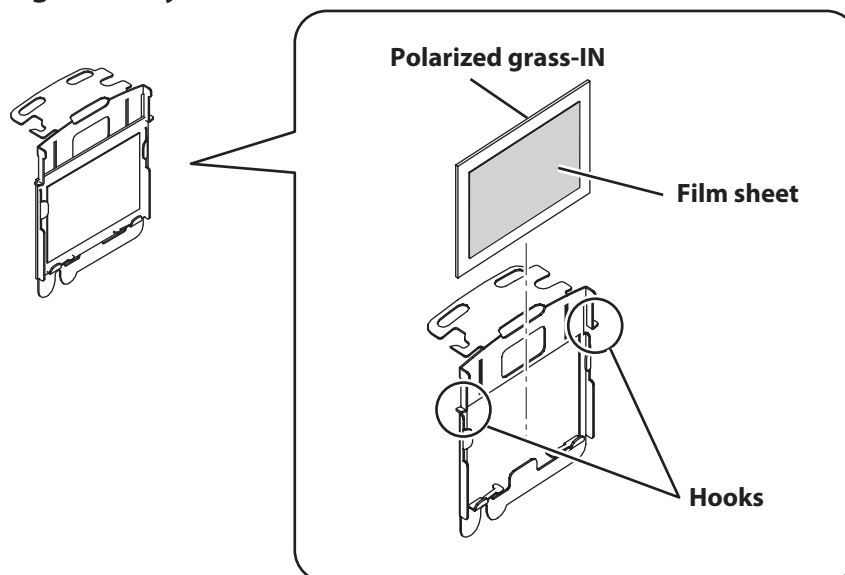
**Integrator lens ass'y****Relay lens ass'y**

15 Polarized grass ass'y removal.

1. Remove the screw-A (M2.5x5) and remove the Polarized grass ass'y (R, G, B).

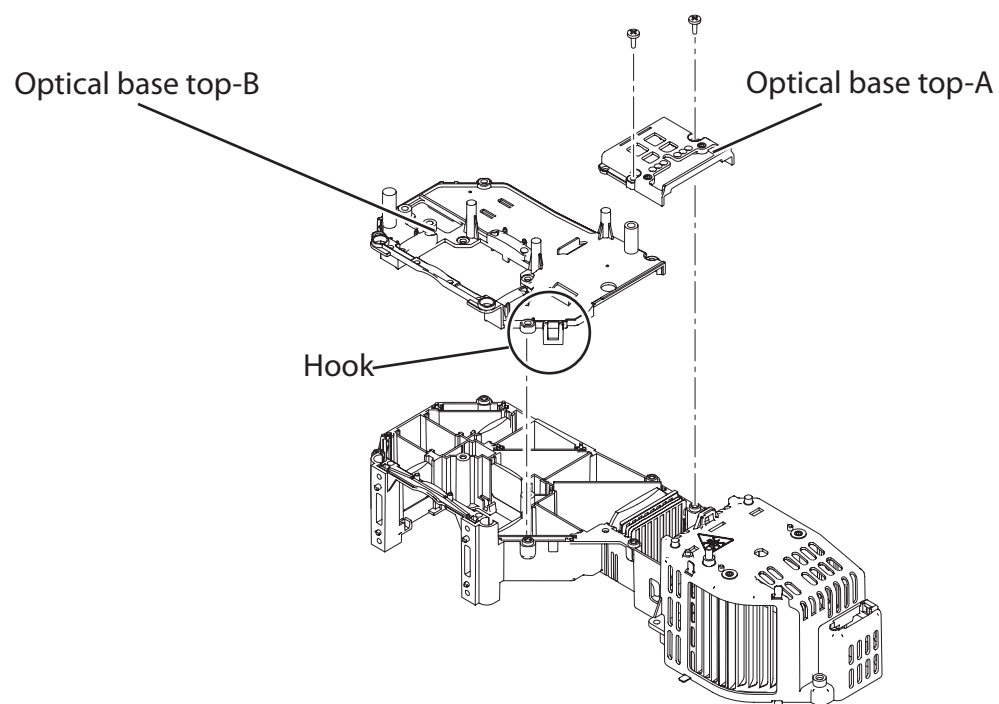


Polarized grass ass'y



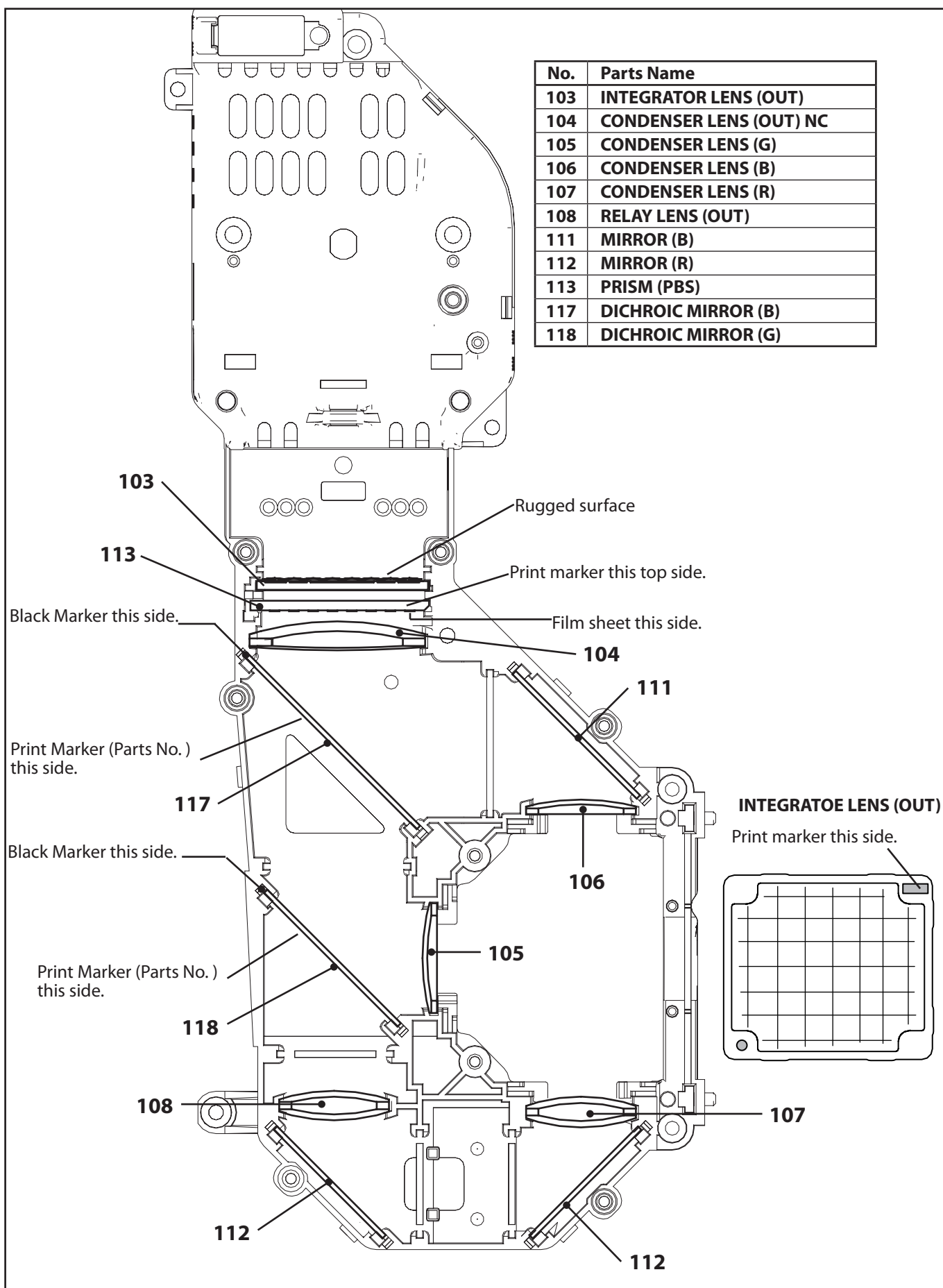
16 Optical base top removal.

1. Remove the Optical base top-B.
2. Remove the 2 screws (T3x8) and remove the Optical base top-A.



■ Optical Parts Location and direction

No.	Parts Name
103	INTEGRATOR LENS (OUT)
104	CONDENSER LENS (OUT) NC
105	CONDENSER LENS (G)
106	CONDENSER LENS (B)
107	CONDENSER LENS (R)
108	RELAY LENS (OUT)
111	MIRROR (B)
112	MIRROR (R)
113	PRISM (PBS)
117	DICHROIC MIRROR (B)
118	DICHROIC MIRROR (G)



■ Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts								
		LCD/ Prism Ass'y	Integrator Lens (IN)	Relay Lens (OUT)	Polarized Glass			Projection lens	Power Board	Main Board
					R	G	B			
Optical Adjustments	Contrast Adjustment									
	R-Contrast adjustment				●					
	G-Contrast adjustment					●				
	B-Contrast adjustment						●			
	Integrator lens adjustment	○	●							
	Relay lens-out adjustment	○		●						
	Projection lens focus adjustment							●		
Electrical Adjustments	Fan control adjustment								●	●
	Panel type check and setting	●								●
	Auto calibration adjustment [PC]									●
	Auto calibration adjustment [Component]									●
	Auto calibration adjustment [Video]									●
	Common center adjustment	●								●
	50% white adjustment [PC]	●								●
	White balance adjustment [PC]	○								○
	50% white adjustment [Video]	●								●
	White balance adjustment [Video]	○								○
	White uniformity adjustment	○								○

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”.
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

- 1 Loosen a screw **A** (**Fig.1**) on the polarized glass mounting base which you intend to adjust.
- 2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

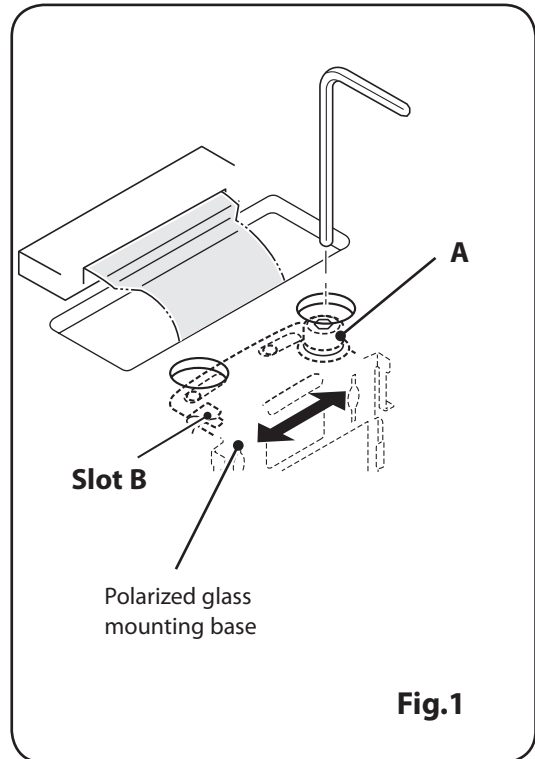
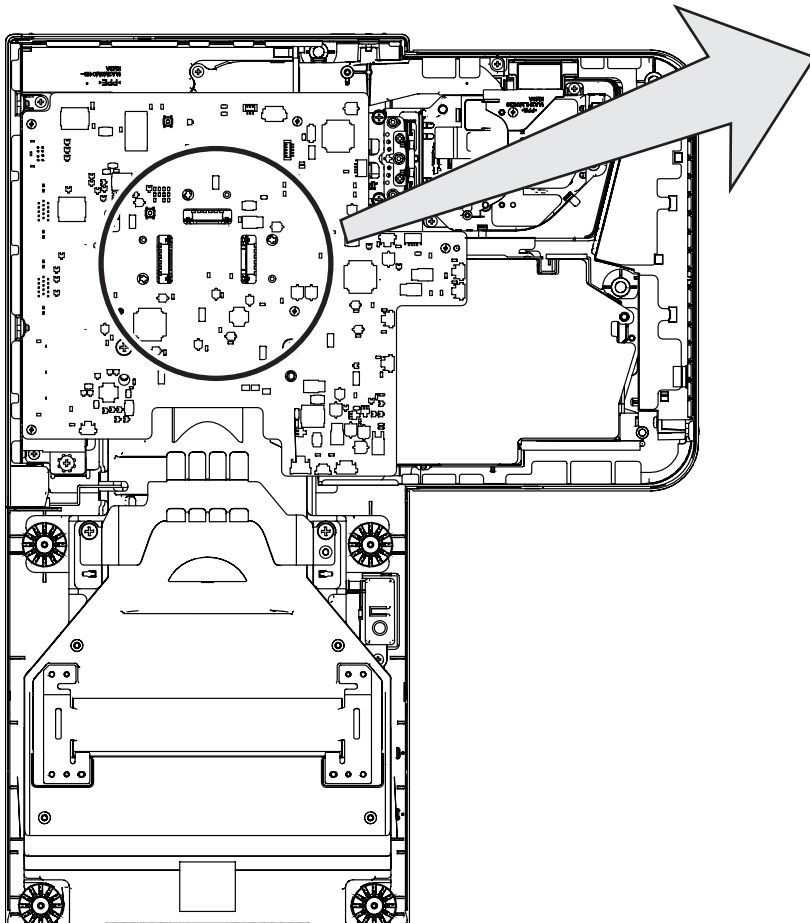


Fig.1

Integrator lens adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and insert a slot screwdriver into the slot **D** and adjust color uniformity in white by turning a slot screwdriver up or down.
- 4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.

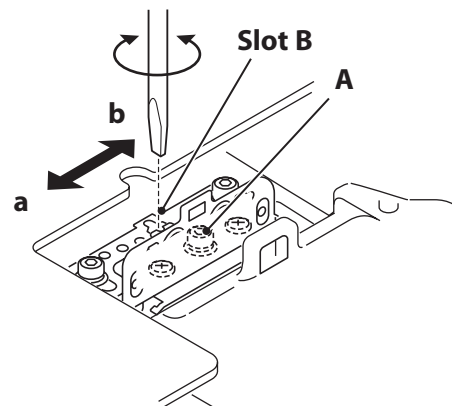
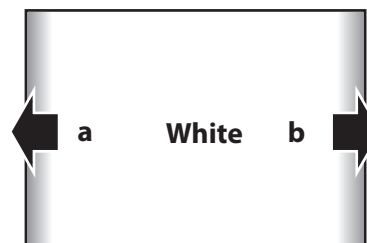
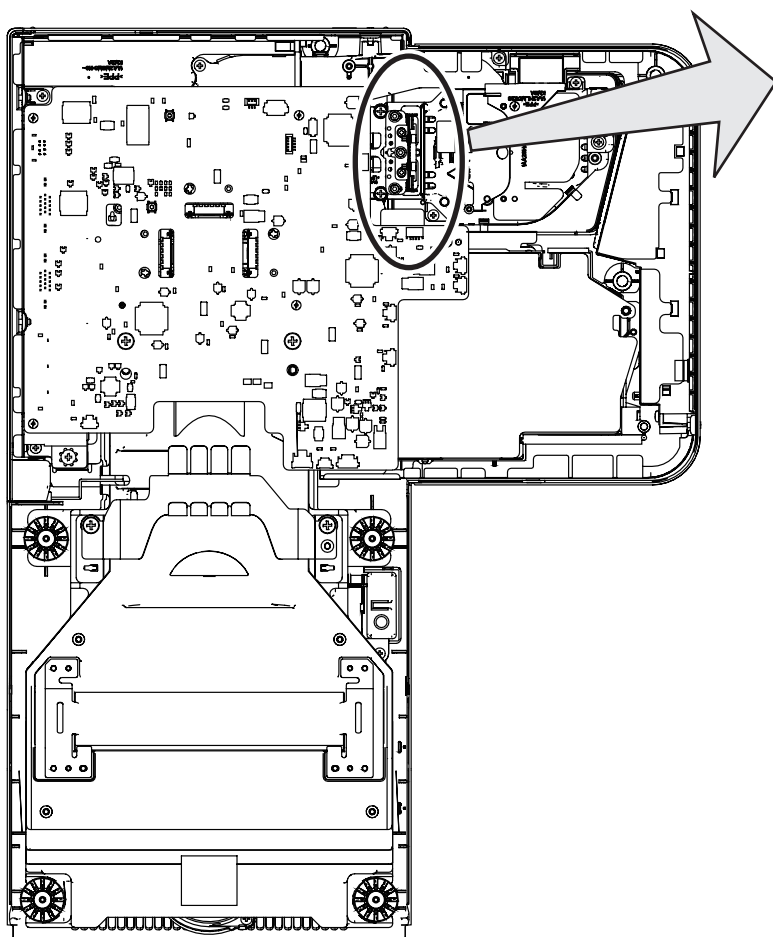


Fig.2-1
Moving of slot B

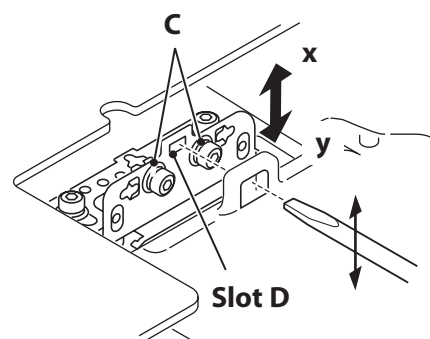
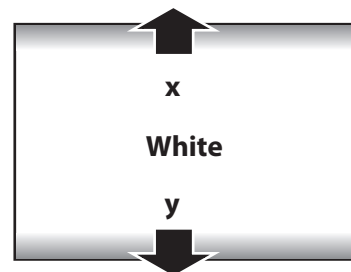


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
- 4 Tighten the screw **A** to fix the relay lens unit.

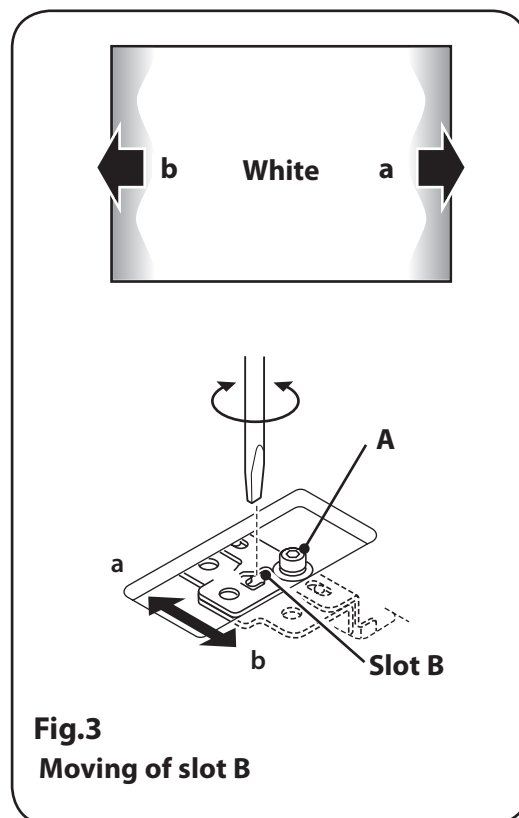
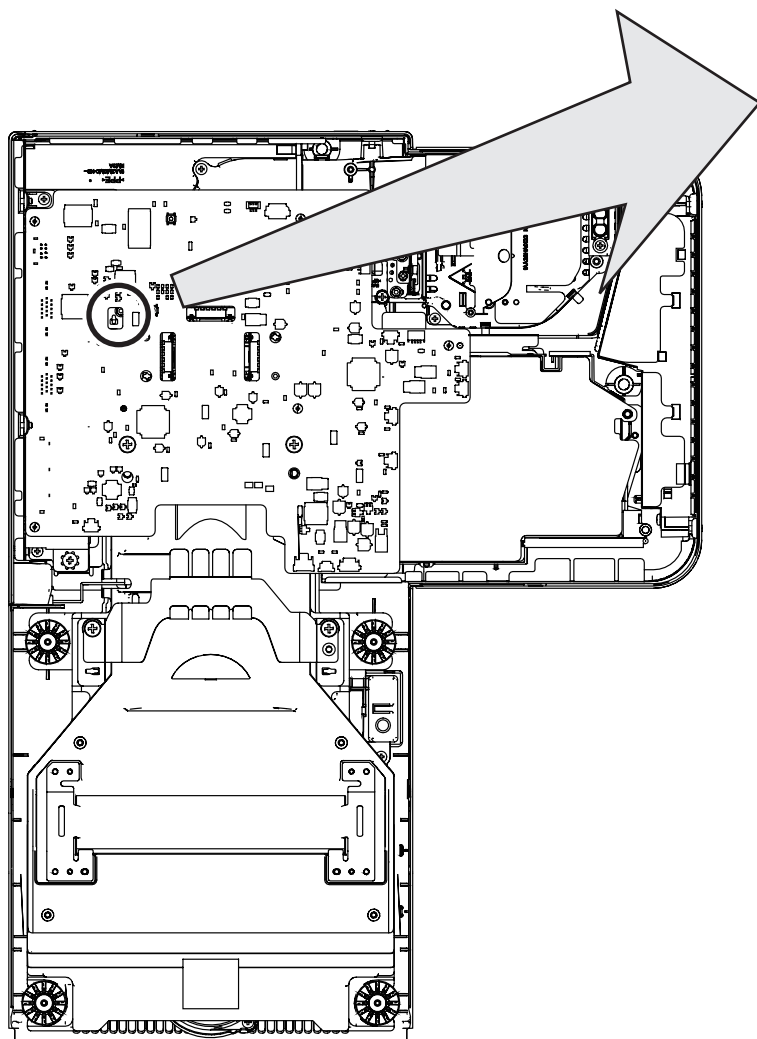
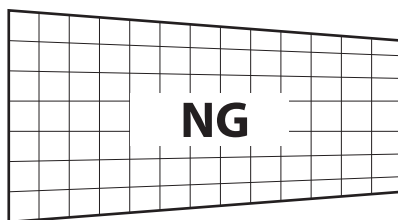
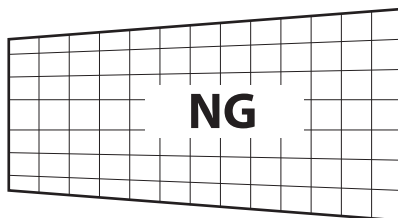
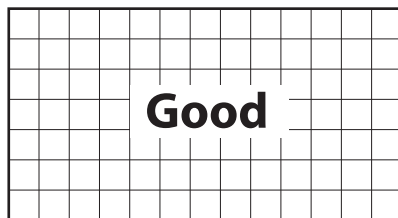


Fig.3
Moving of slot B

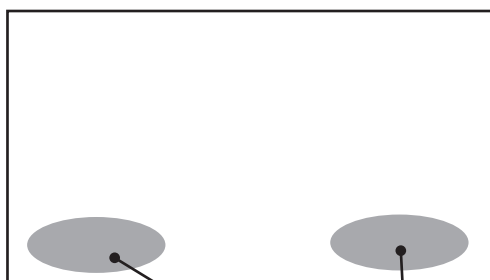
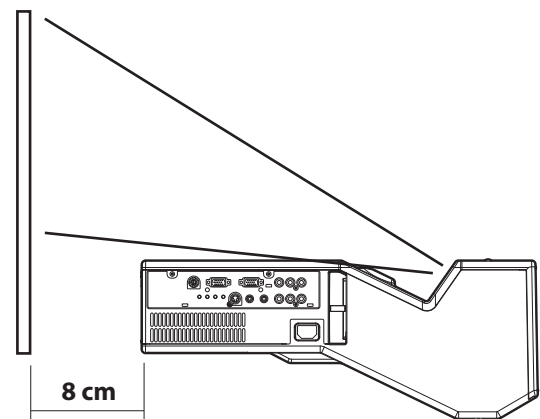
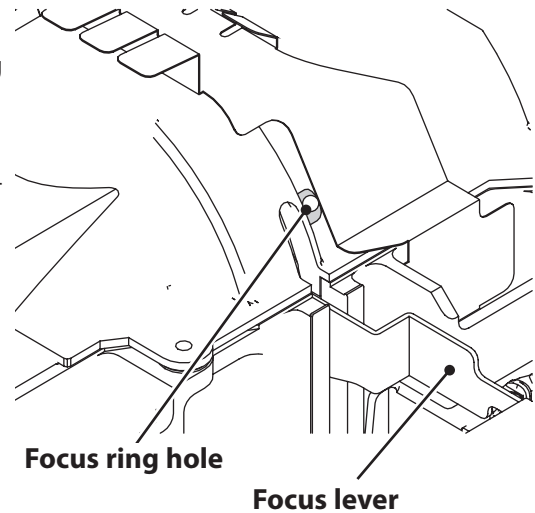
Projection lens focus adjustment

[Before Adjustment]

- 1** The projector is set from the screen to 8 cm.
- 2** The hole of the focus ring is set to the position of figure by operating the focus lever. (Screen size 78")
- 3** Input a cross pattern.
- 4** The position of the projector is matched so that the picture may become a rectangle. (Do not become a trapezoid.)



Projection lens



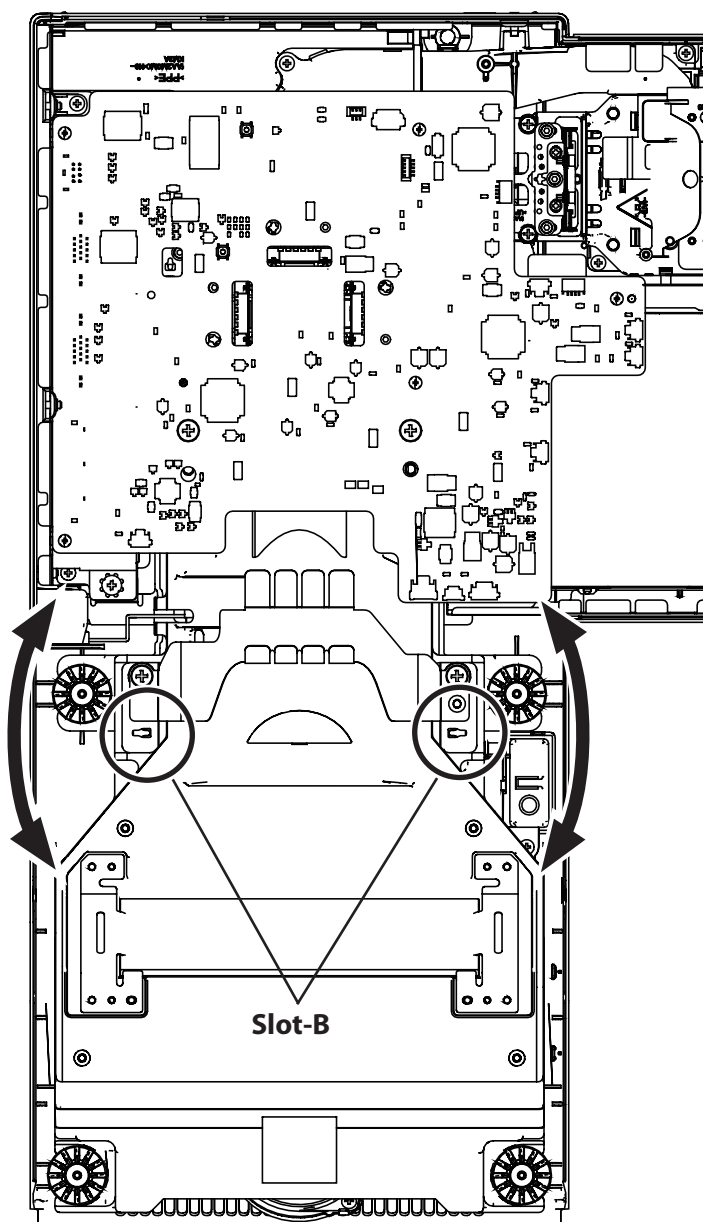
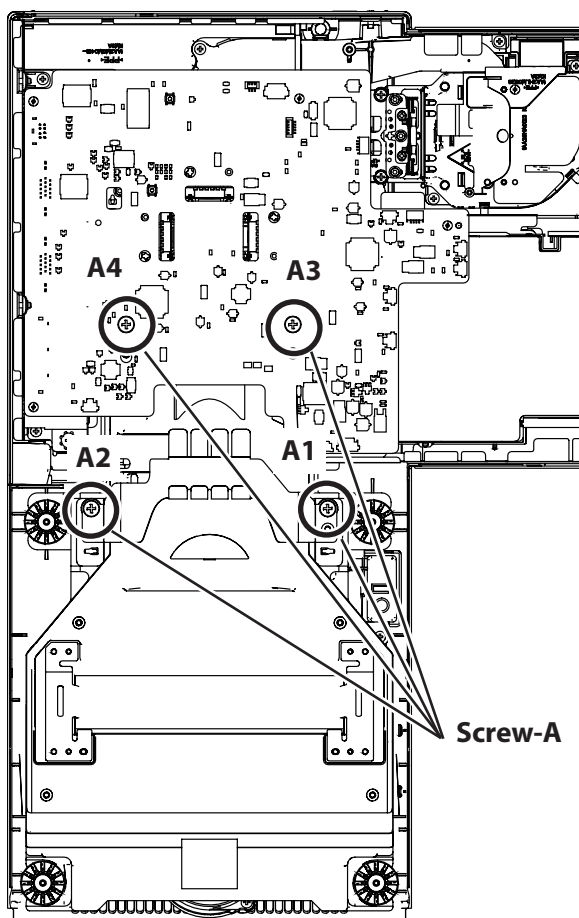
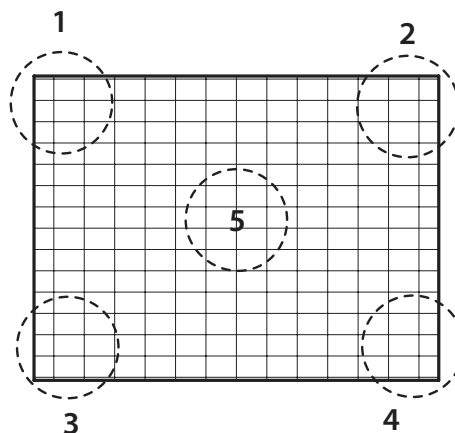
Focus adjusted this area.

Optical Adjustments

- 1 Loosen the 4 screws-A (**A1, A2, A3, A4**).
- 2 Right and left focus under the screen is adjusted by using slot **B**.
(Pre-adjustment)
- 3 The screws-A**1, A2** are lightly tightened and temporary is fixed.
- 4 Focus on the entire screen is adjusted.
- 5 Tighten the 4 screws-A (**A1, A2, A3, A4**).

Caution :

Confirm focus after it tightens up the screws.



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

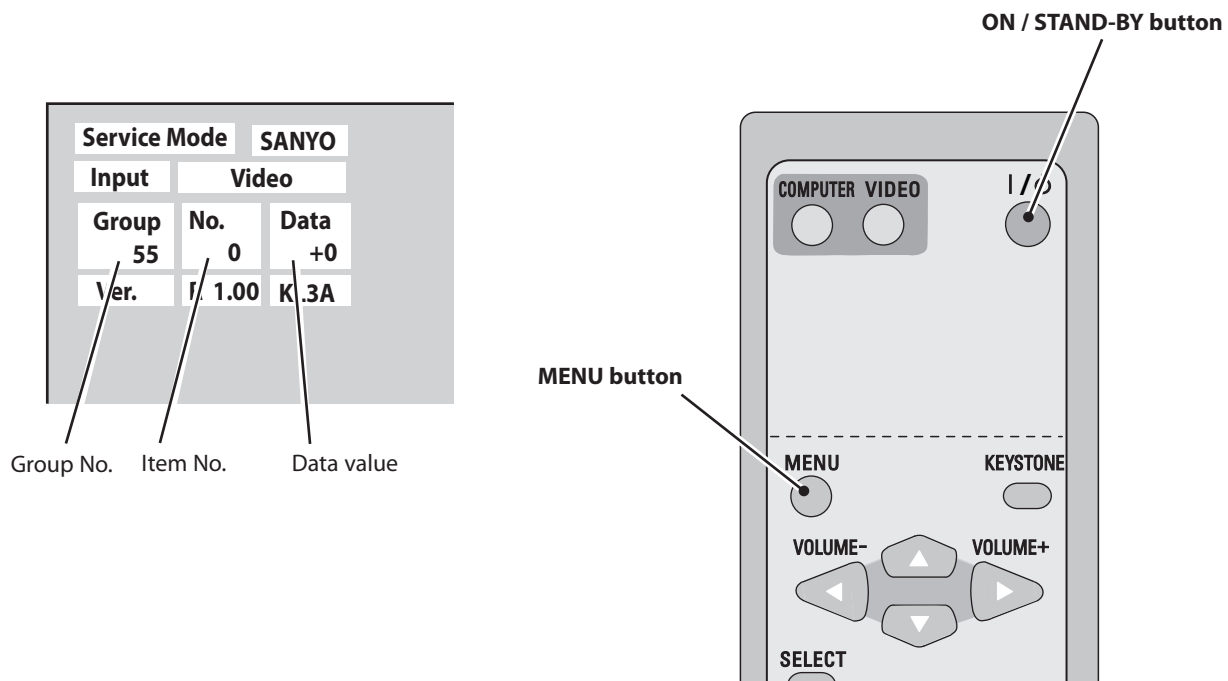
To enter the "Service Mode", press and hold the **MENU** on the remote control unit for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼ button**, and change the data value by pressing the **◀** or **▶ button**. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.



Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the "Electrical Adjustments".

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped

data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

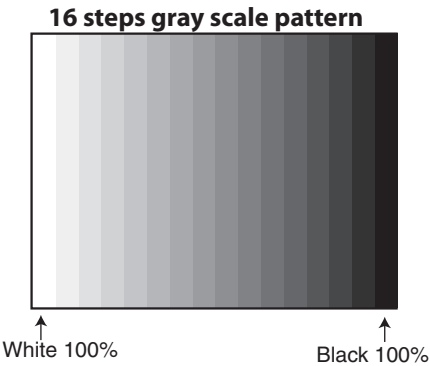


CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal
Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale
(Composite video signal)
Component Video signal 0.7Vp-p/75Ω terminated, Color Bar
(Component video signal)
Computer signal 0.7Vp-p/75Ω terminated, 16 steps gray scale
pattern
- Image control mode....."STANDARD" mode unless otherwise noted.

Note:
* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.



Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

- 1. Connect a digital voltmeter to pins 2 (+) and 1 (-) of **K6A**.
- 2. Setting Lamp control "**High**".
- 3. Adjust the voltage by using VR601 as following.

AC Input	Reading
230V	370V ±2V

Caution:
Be sure to connect the lamp and lamp ballast when taking this adjustment.
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1. Fan Control adjustment

- 1. Enter the service mode.
- 2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**250**", item no. "**0**" and change data value to adjust voltage to be **5.0 ±0.1V**.
- 3. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**2**" and change data value to adjust voltage to be **5.0 ±0.1V**.
- 4. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**4**" and change data value to adjust voltage to be **5.0 ±0.1V**.
- 5. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select item no. "**1**" and change data value to adjust voltage to be **13.5 ±0.1V**.
- 6. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**3**" and change data value to adjust voltage to be **13.5 ±0.1V**.
- 7. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**5**" and change data value to adjust voltage to be **13.5 ±0.1V**.

2. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.

2. Panel Type Check

Select group no. "290", item no. "0". Check the data value as follows;

Data value: 0 For L-Type of LCD Panel

Data value: 20 For R-Type of LCD panel

3. Panel Type Setting

Select group no. "290", item no. "1" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

3. Auto Calibration adjustment [PC]

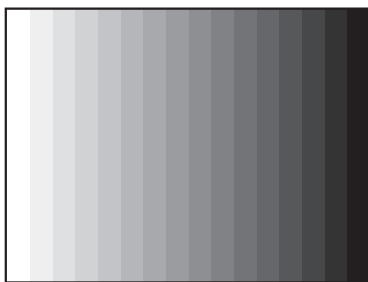
1. Enter the service mode.

2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.

Lamp control **High** mode.

G-sync Off

3. To start the auto-calibration for PC adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.



Below adjustments are performed when the above auto calibration is failed.

Pedestal adjustment [PC]

1. Enter the service mode.

2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.

3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).

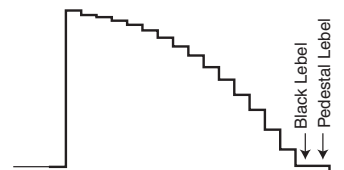
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.

5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).

6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.

7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).

8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.

2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.

3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).

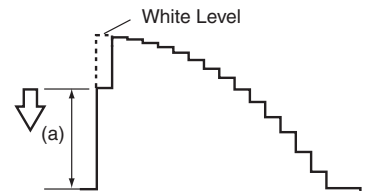
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.

5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).

6. Select group no. "0", item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.

7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).

8. Select group no. "0", item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



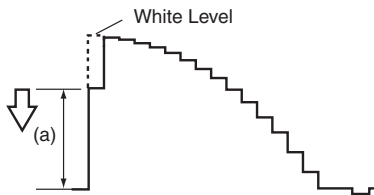
4. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "20", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.



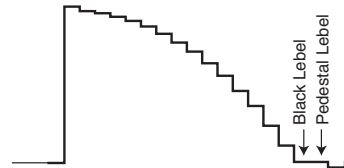
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the Color Bar 480i-component signal with **Video [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

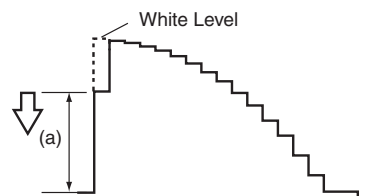
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the Color Bar 480i-component signal with **Video [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the Color Bar 480i-component signal with **Video [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.

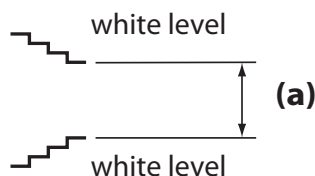


6. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no. "100", item no. "92" and change data value to "2" to reduce the panel frequency.
4. Project only **green** light component to the screen.
5. Select group no. "101", item no. "1" and change data value to obtain the minimum flicker on the screen.
6. Project only **red** light component to the screen.
7. Select item no. "0" and change data value to obtain the minimum flicker on the screen.
8. Project only **blue** light component to the screen.
9. Select item no. "2" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "100", item no. "92" and change data value to "0" to reset the panel frequency.

7. 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



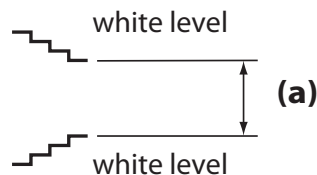
8. White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
3. Select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

9. 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



10. White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

11. Gamma Correction adjustment [PC]

This adjustment must use the service tool.

Adjust the gamma correction by using the proper computer and "PROJECTOR SERVICE TOOL" software supplied separately.

12. Gamma Correction adjustment [Video]

This adjustment must use the service tool.

Adjust the gamma correction by using the proper computer and "PROJECTOR SERVICE TOOL" software supplied separately.

13. Read/Write of LCD panel gamma data when Main Board replacing

The gamma adjustment data of each LCD panel has been adjusted precisely to match each LCD panel characteristics at factory.

When you replace the Main Board, you need to read out the gamma data stored in the memory IC on the previous board and write down the gamma data into the memory IC on the new board. By this way, the projector is enabled to reproduce the picture which has the properly adjusted gamma characteristic.

Use "PROJECTOR SERVICE TOOL" for Read / Write of the gamma data as follows;

Note On White Uniformity Adjustment

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "PROJECTOR SERVICE TOOL" software supplied separately.

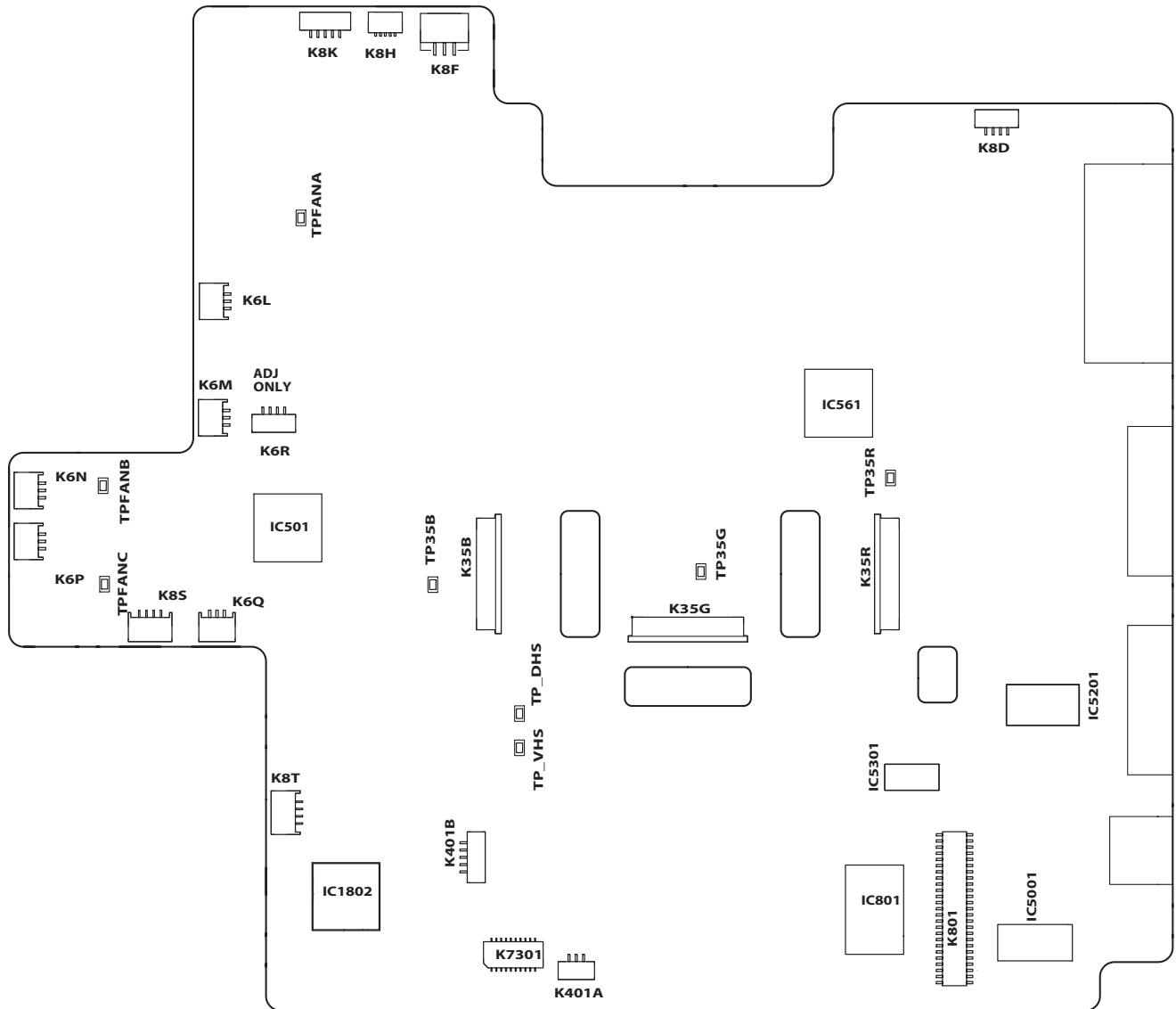
The software can be ordered as follows;

PROJECTOR SERVICE TOOL Ver. 4.10

Service Parts No. 610 337 8787

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Group/Item	Item Name	Function	Initial	Range	Note
Group 0	AD Converter (PW190)				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threould	4 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	

Group/Item	Item Name	Function	Initial	Range	Note
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10 Sync Processor					
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 transition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 transition	0x700	0 - 9999	
Group 20 Video Decoder *R : Read Only Value					
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40 General					
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41 Deinterlacer setting Effective only for Progressive ON-L1 mode.					
0	Motion Adaptive Weight Value	<KDEINT>	60	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42 Deinterlacer setting Effective only for Progressive ON-L2 mode.					
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43 Deinterlacer setting Effective only for Progressive ON/Film mode.					
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45 Noise Reduction (Time) Effective only for N.R - Off					
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	

Service Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	Noise Reduction (Time) Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	Noise Reduction (Time) Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	2:2pull down setting				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1023	Read only
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	Image				
0	Center Contrast		534/596/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/468/512/500/512/512	0 - 1023	
2	Center Color		512/512/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		140/140/140/140/140/140	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	Panel Service				
0	G-SubGain		2048/2096/1860/1860/1860/2048/2096/ 1860/1860/1860	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard Center=2048
1	R-SubGain		2048/2096/1860/1860/2140/2048/2096/ 1860/1860/2140	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard Center=2048

Group/ Item	Item Name	Function	Initial	Range	Note
2	B-SubGain		2048/2096/1860/1860/1860/2048/2096/ 1860/1860/1860	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard
3	G-SubBright		2048/2048/2088/2088/2088/2048/2048/ 8/2088/2088/2088	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard
4	R-SubBright		2048/2048/2088/2088/2088/2048/2048/ 8/2088/2088/2088	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard
5	B-SubBright		2048/2048/2088/2088/2088/2048/2048/ 8/2088/2088/2088	0-4095	PCStandard/PCDynamic/PCReal/PC-ColorBoard/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVcolorBoard/AVBlackBoard
6	G-GammaShift		2048/2048	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		2048/2048	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
8	B-GammaShift		2048/2048	0-4095	PC/AV Center=512 R] and [B] are linked with [G]
9	G-ReferH		4095/4095	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		1200/1200	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		4095/4095	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		1200/1200	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		4095/4095	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		1200/1200	0-4095	Scan Direction (Front/Rear)
15	DXOutR		270	0-1023	
16	DXOutG		270	0-1023	
17	DXOutB		270	0-1023	
18	H_Change_Pos		34	0-256	
19	SH_Base		1092	0-4095	
20	NRG_Pos		43	0-128	
21	NRG_Width		43	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-7	
24	GammaCtrl		3	0-3	
25	REF_GatePos		11	0-1023	
26	REF_GateDur		144	0-1023	
27	R-BasePos		5	0-15	
28	G-BasePos		5	0-15	
29	B-BasePos		5	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=512[0<-->512<-->1024 <-->1536<-->2048<-->2560<-->3072<-->3584<-->4095]
32	LineR0		0	0-1023	(MIN<-->MAX Cyclic Operation)
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		5	0-31	
48	GhostG-Pos		5	0-31	
49	GhostB-Pos		5	0-31	
50	GhostR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
51	GhostR-Start		128	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
54	GhostG-Start		128	0-255	
55	GhostG-End		128	0-255	

Service Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
56	GhostB-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
57	GhostB-Start		128	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverseR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverseG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverseB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		320	0-1023	
79	R-Mid2		508	0-1023	
80	R-Mid1		611	0-1023	
81	R-Max		703	0-1023	
82	G-Min		320	0-1023	
83	G-Mid2		508	0-1023	
84	G-Mid1		611	0-1023	
85	G-Max		703	0-1023	
86	B-Min		320	0-1023	
87	B-Mid2		508	0-1023	
88	B-Mid1		611	0-1023	
89	B-Max		703	0-1023	
90	H-OutPos		123	0-2047	
91	OutAreaLv		0	0-4095	
92	FlickerAdj		0	0/2	
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
95	FrontCTalkR-Start		128	0-255	
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
98	FrontCTalkG-Start		128	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		0	0-2047	(MIN<-->MAX Cyclic Operation)
101	FrontCTalkB-Start		128	0-255	
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0/0	0-1023	(MIN<-->MAX Cyclic Operation)
104	R-DCOffset-N1		2047 / 2047	0-2047	(MIN<-->MAX Cyclic Operation)
105	R-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
106	R-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
107	R-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
108	R-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
109	R-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
110	R-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
111	R-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
112	R-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
113	R-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
114	R-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
115	R-DCOffset-N12		1980 / 1980	0-2047	(MIN<-->MAX Cyclic Operation)
116	G-DCOffset-NGain		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
117	G-DCOffset-N1		2044 / 2044	0-2047	(MIN<-->MAX Cyclic Operation)
118	G-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
119	G-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
120	G-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
121	G-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
122	G-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
123	G-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
124	G-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)

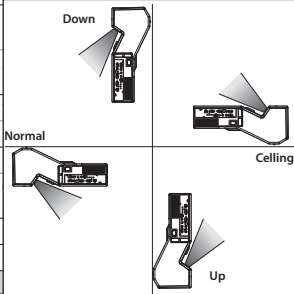
Group/ Item	Item Name	Function	Initial	Range	Note
125	G-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
126	G-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
127	G-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
128	G-DCOffset-N12		1980 / 1980	0-2047	(MIN<-->MAX Cyclic Operation)
129	B-DCOffset-NGain		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
130	B-DCOffset-N1		2044 / 2044	0-2047	(MIN<-->MAX Cyclic Operation)
131	B-DCOffset-N2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
132	B-DCOffset-N3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
133	B-DCOffset-N4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
134	B-DCOffset-N5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
135	B-DCOffset-N6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
136	B-DCOffset-N7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
137	B-DCOffset-N8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
138	B-DCOffset-N9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
139	B-DCOffset-N10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
140	B-DCOffset-N11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
141	B-DCOffset-N12		1980 / 1980	0-2047	(MIN<-->MAX Cyclic Operation)
142	R-DCOffset-PGain		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
143	R-DCOffset-P1		16/16	0-2047	(MIN<-->MAX Cyclic Operation)
144	R-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
145	R-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
146	R-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
147	R-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
148	R-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
149	R-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
150	R-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
151	R-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
152	R-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
153	R-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
154	R-DCOffset-P12		88/88	0-2047	(MIN<-->MAX Cyclic Operation)
155	G-DCOffset-PGain		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
156	G-DCOffset-P1		16/16	0-2047	(MIN<-->MAX Cyclic Operation)
157	G-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
158	G-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
159	G-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
160	G-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
161	G-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
162	G-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
163	G-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
164	G-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
165	G-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
166	G-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
167	G-DCOffset-P12		88/88	0-2047	(MIN<-->MAX Cyclic Operation)
168	B-DCOffset-PGain		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
169	B-DCOffset-P1		16/16	0-2047	(MIN<-->MAX Cyclic Operation)
170	B-DCOffset-P2		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
171	B-DCOffset-P3		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
172	B-DCOffset-P4		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
173	B-DCOffset-P5		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
174	B-DCOffset-P6		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
175	B-DCOffset-P7		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
176	B-DCOffset-P8		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
177	B-DCOffset-P9		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
178	B-DCOffset-P10		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
179	B-DCOffset-P11		0/0	0-2047	(MIN<-->MAX Cyclic Operation)
180	B-DCOffset-P12		88/88	0-2047	(MIN<-->MAX Cyclic Operation)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_STEP_0		20	0-1023	(MIN<-->MAX Cyclic Operation)
186	R_V_INPUT_STEP_512		16	0-1023	(MIN<-->MAX Cyclic Operation)
187	R_V_INPUT_STEP_1024		13	0-1023	(MIN<-->MAX Cyclic Operation)
188	R_V_INPUT_STEP_1536		8	0-1023	(MIN<-->MAX Cyclic Operation)
189	R_V_INPUT_STEP_2048		4	0-1023	(MIN<-->MAX Cyclic Operation)
190	R_V_INPUT_STEP_2560		1	0-1023	(MIN<-->MAX Cyclic Operation)
191	R_V_INPUT_STEP_3072		1022	0-1023	(MIN<-->MAX Cyclic Operation)
192	R_V_INPUT_STEP_3584		1018	0-1023	(MIN<-->MAX Cyclic Operation)
193	R_V_INPUT_STEP_4096		1015	0-1023	(MIN<-->MAX Cyclic Operation)

Service Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
194	G_V_INPUT_STEP_0		20	0-1023	(MIN<-->MAX Cyclic Operation)
195	G_V_INPUT_STEP_512		16	0-1023	(MIN<-->MAX Cyclic Operation)
196	G_V_INPUT_STEP_1024		13	0-1023	(MIN<-->MAX Cyclic Operation)
197	G_V_INPUT_STEP_1536		8	0-1023	(MIN<-->MAX Cyclic Operation)
198	G_V_INPUT_STEP_2048		4	0-1023	(MIN<-->MAX Cyclic Operation)
199	G_V_INPUT_STEP_2560		1	0-1023	(MIN<-->MAX Cyclic Operation)
200	G_V_INPUT_STEP_3072		1022	0-1023	(MIN<-->MAX Cyclic Operation)
201	G_V_INPUT_STEP_3584		1018	0-1023	(MIN<-->MAX Cyclic Operation)
202	G_V_INPUT_STEP_4096		1015	0-1023	(MIN<-->MAX Cyclic Operation)
203	B_V_INPUT_STEP_0		20	0-1023	(MIN<-->MAX Cyclic Operation)
204	G_V_INPUT_STEP_512		16	0-1023	(MIN<-->MAX Cyclic Operation)
205	G_V_INPUT_STEP_1024		13	0-1023	(MIN<-->MAX Cyclic Operation)
206	G_V_INPUT_STEP_1536		8	0-1023	(MIN<-->MAX Cyclic Operation)
207	G_V_INPUT_STEP_2048		4	0-1023	(MIN<-->MAX Cyclic Operation)
208	G_V_INPUT_STEP_2560		1	0-1023	(MIN<-->MAX Cyclic Operation)
209	G_V_INPUT_STEP_3072		1022	0-1023	(MIN<-->MAX Cyclic Operation)
210	G_V_INPUT_STEP_3584		1018	0-1023	(MIN<-->MAX Cyclic Operation)
211	G_V_INPUT_STEP_4096		1015	0-1023	(MIN<-->MAX Cyclic Operation)
212	FRPPOL		84	0-4095	
213	FRP_POS		34	0-255	
214	SWAP		1285	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FOLLOW		1	0-1	
217	DELAY_HSYNC		30	0-2047	
218	DELAY_VSYNC		16	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	(MIN<-->MAX Cyclic Operation)
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	DATA LIMIT MAX R		4095	0-4095	
230	DATA LIMIT MAX G		4095	0-4095	
231	DATA LIMIT MAX B		4095	0-4095	
Group101 : Panel Service(6150/1060)					
0	R-LCCOM		330	0-511	
1	G-LCCOM		330	0-511	
2	B-LCCOM		330	0-511	
3	R-LCCOM-Gain		191	0-255	
4	G-LCCOM-Gain		191	0-255	
5	B-LCCOM-Gain		191	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		18	0-63	
10	G-LCCOM-Cent		18	0-63	
11	B-LCCOM-Cent		18	0-63	
12	R-ENBX-PW		11	0-127	
13	G-ENBX-PW		11	0-127	
14	B-ENBX-PW		11	0-127	
15	R-DXIN		3	0-255	Link with No.18
16	G-DXIN		3	0-255	Link with No.19
17	B-DXIN		3	0-255	Link with No.20
18	R-CLXIN		3	0-255	Link with No.15
19	G-CLXIN		3	0-255	Link with No.16
20	B-CLXIN		3	0-255	Link with No.17
21	R-ENBX1IN		17	0-255	
22	G-ENBX1IN		17	0-255	
23	B-ENBX1IN		17	0-255	
Group 200 Option					
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps

Group/Item	Item Name	Function	Initial	Range	Note
2	PJLink Enable	PJLink	0	0 - 1	0: Disable 1: Enable
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10
4	CABLE SW	Long Cable	0	0 - 1	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Enable) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)		500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)		500 - 8000	
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
53	Filter Counter Reset Time	Reset Times of Filter Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Factory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X axis)	0	0 - 1024	
57	Menu Position	Move menu (Y axis)	0	0 - 1024	
58	Lamp Go Out		n/a	0 - 1	
59	Source Search Enable	Source Search	0	0 - 1	0:Disable 1: Enable
70	RC Mode	Setting RC Mode	1	0 - 1	0: Normal RC Mode 1: Promethean RC Mode
71	Force Model Option	Model Option Force Setting	0	0 - 2	0: Normal 1: Force for XE50 2: Force for XL50
80	Panel life test mode	Setting panel life test mode	1	0 - 1	0: Life test mode 1: Normal
Group 201 Option (signal)					
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINV/Setting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Disable, Used all the Center Values) 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensitivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 32757	
10	Sensitivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 203 Option (XE50 FPGA)					
0	FPGA Version	FPGA Version Display			Read only
1	ON / OFF	Yniformity Adjustment Setting ON/OFF	1	0 - 1	0 : OFF 1: ON
2	MODE	Table No. of FPGA	0	0 - 3	0 : TBL0, 1: TBL1 2: TBL2
3	SEL	Uniformity adjustment Method Setting	1	0 - 1	0: Output = Input x (kH+kV) / 2 1: Output = Input x (kH+kV)
4	HANTEN	Adrrs Reverse Setting	0	0 - 3	0: Normal 1: R/L reverse 2: U/D reverse 3: R/L/U/D reverse
5	Red Gain	Red Gain Setting	128/92/128/92/128	0 - 255	Normal/Red/Blue/Yellow/Green

Service Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
6	Green Gain	Green Gain Setting	128/120/120/94/118	0 - 255	Normal/Red/Blue/Yellow/Green
7	Blue Gain	Blue Gain Setting	128/128/106/128/128	0 - 255	Normal/Red/Blue/Yellow/Green
8	Table	Uniformity adjustment table setting	0	0 - 7	
Group 205	Spread Spectrum				
0	Enable	Spread ON/OFF	1	0 - 1	0 : ON 1 : OFF
1	Modulation Frequency	Modulation ratio	80	1 - 500	x 100Hz
2	Spread ratio		100	0 - 300	(Set value 100 ---> 0.5%)
Group 210	LampContorl				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0 - 255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	
18	DIMMER_LEVEL_NORMAL	High Dimmer Level	15	0 - 15	
19	DIMMER_LEVEL_ECO	Normal Dimmer Level	0	0 - 15	
20	Lamp check enable		1	0 - 1	
21	VOLTAGE_LEVEL	Lamp Voltage	-		
Group 220	Projector Warning Histry				
0	Warning_Log_1	Last error log	0	0 - 32767	
~	:		:	:	
49	Warning_Log_50	50th error log	0	0 - 32767	
50	Warning_Log_Reset	Log is reset when the value is set to 10.	0	0 - 10	

Group/Item	Item Name	Function	Initial				Range	Note
Group 250	FAN Cntorol							
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan Adjust the tolerance of DAC and Fan Volage. * Lamp mode is forced Eco	45				0 - 255	
1	FAN1 MAX ADJUST (DAC)		235				0 - 255	
2	FAN2 MIN ADJUST (DAC)		45				0 - 255	
3	FAN2 MAX ADJUST (DAC)		235				0 - 255	
4	FAN3 MIN ADJUST (DAC)		45				0 - 255	
5	FAN3 MAX ADJUST (DAC)		235				0 - 255	
6	Not used							
7	Not used							
Group 251								
	Not used							
Group 252	Fan Option							
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0				0 - 5	
1	SAFETY SWITCH	For test purpose	0				0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0				0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100				0 - 255	
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Mauual	100				0 - 255	
5	FAN3 MANUAL VOLTAGE	switch is 1	100				0 - 255	
6	Not used							
7	Stand Mode	Stand mode setting 0: Normal(Free) 1: Normal(Fixed) 2: Ceiling 3: Down 4: Up	0				0 - 4	
8	Fan Offset Voltage Update Interval	filter clogged Fan Voltage Update interval time (sec.)	60				1 - 600	
Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	Down	Up		
0	Not used							
1	Not used							
2	Not used							
3	Not used							
4	Not used							
5	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	42 32	42 32	42 32	42 32	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
6	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	54 57	54 57	54 57	54 57	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
7	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	75 78	75 78	75 78	75 78	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
8	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
9	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
10	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	42 32	42 32	42 32	42 32	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
11	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	53 58	53 58	53 58	53 58	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
12	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	78 80	78 80	78 80	78 80	30-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
13	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
14	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.)	5					
16	Temp B Warning Offset (Temp)	Error Setting Value is increased X°C at the below condition	5					
17	Temp C Warning Offset (Temp)	* Standby	5					
18	Temp B-A Warning Offset (Temp)	* Right to turn on the lamp	0					
19	Temp C-A Warning Offset (Temp)	*Right to change the Lamp mode	0					
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes)	1					
21	Temp B Warning Offset (Time)	Error Setting Value is increased X minute at the below condition	1					
22	Temp C Warning Offset (Time)	* Standby	1					
23	Temp B-A Warning Offset (Time)	* Right to turn on the lamp	1					
24	Temp C-A Warning Offset (Time)	*Right to change the Lamp mode	1					
25	Factory Mode	For factor use	0					

Service Adjustment

Group/Item	Item Name	Function	Initial				Range	Note
Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling	Down	Up		
0	Not used							
1	Not used							
2	Not used							
3	Not used							
4	Not used							
5	Not used							
6	Not used							
7	Not used							
8	Not used							
9	Not used							
10	High Fan Control Min Temp	Temp Sensor Control Start/End Temp. at High	27 29	27 29	27 29	27 29	20-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
11	High Fan Control Max Temp		36 30	36 30	36 30	36 30	20-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
12	High Fan1 Min	Fan voltage value at High (unit: 0.1V)	70 120	70 120	70 120	70 120	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
13	High Fan1 Max		110 120	110 120	110 120	110 120	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
14	High Fan2 Min		95 130	95 130	95 130	95 130	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
15	High Fan2 Max		120 130	120 130	120 130	120 130	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
16	High Fan3 Min		85 106	85 106	85 106	85 106	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
17	High Fan3 Max		95 106	95 106	95 106	95 106	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
18	Not used		9999	9999	9999	9999	-	
19	Not used		9999	9999	9999	9999	-	
20	Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp. at Normal	27 29	27 29	27 29	27 29	20-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
21	Normal Fan Control Max Temp		36 30	36 30	36 30	36 30	20-100	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
22	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	60 100	60 100	60 100	60 100	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
23	Normal Fan1 Max		85 100	85 100	85 100	85 100	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
24	Normal Fan2 Min		75 110	75 110	75 110	75 110	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
25	Normal Fan2 Max		110 110	110 110	110 110	110 110	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
26	Normal Fan3 Min		60 85	60 85	60 85	60 85	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
27	Normal Fan3 Max		65 85	65 85	65 85	65 85	0-255	Normal/Ceiling/Down/Up HiLand : Normal/ Ceiling/Down/Up
28	Not used		9999	9999	9999	9999	-	
29	Not used		9999	9999	9999	9999	-	
30	Filter Error Detect Temp	Fan Control Start Temp. (Temp B-A) (Clogging Det.)	18	18	18	18	0-100	Normal/Ceiling/Down/Up
31	Filter Error Offset Volt	Fan Control Voltage Up (Cloggiing Det.) (unit : 0.1V)	3	3	3	3	0-255	Normal/Ceiling/Down/Up
Group 255	Fan Start/Cooling Setting							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)		70			0-255	
1	Fan2 Initial Volt			70			0-255	
2	Fan3 Initial Volt			70			0-255	
3	Not used			255			-	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)		130			0-255	
5	Fan2 Cooling Speed			130			0-255	
6	Fan3 Cooling Speed			130			0-255	
7	Not used			255			-	
8	Cooling Time Down	Cooling Time stting at Fan Mode Down (x 30 sec) 1: 30, 3: 90, 15: 450 sec.		2			1-15	
9	Cooling Time Up	Cooling Time stting at Fan Mode Up (x 30 sec) 1: 30, 3: 90, 15: 450 sec.		3			1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Errro (x 30 sec)		3			1-15	
11	OnStart Cooling Start Threshold			38			0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)		1			0-1	

Group/Item	Item Name	Function	Initial	Range	Note
Group 256	Fan Lamp Voltage Down Setting				
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-	0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V×10)		30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)		0-255	
3	Fan2 Speed Gain		0-255		
4	Fan3 Speed Gain		0-255		
5	Not used		9999	-	
Group 257	Fan Dimmer Setting				
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:60sec, 3: 90sec ...10:300 sec)	1	0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		
2	Last Voltage Difference	Read only	-		
3	Voltate Difference Goal	Read only			
Group 258	Fan IC Temp for Netowrk model				
0	Not used.				
1	Not used.				
2	Not used.				
Group 260	Auto Calibration (Commn) * Auto Calibration				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolence	Tolerance of OFFSET	2	1 - 255	
Group 261	Auto Calibration (RGB)				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Tolerance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Tolerance of White Level Adj.	1	1 - 255	
Group 262	Auto Calibration (CVBS/SVIDEO)				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	500	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	13	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	20	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
11	Gain Tolerance	Tolerance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	
Group 264	Auto Calibration (YCbCr)				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START	Y	50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	

Service Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	8	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0 - 255	
17	Y - GAIN TARGET		217	0 - 255	
18	CB - GAIN TARGET		237	0 - 255	
19	CR - GAIN TARGET		237	0 - 255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 270 CUSTUM (Aspect)					
0	Scaler Horizontal	Horizontal Expansion and contraction rate	100	68 - 132	
1	Scaler Vertical	vertical Expansion and contraction rate	100	68 - 132	
2	Connect	Select Individual / synchronizatio	0	0 - 1	0 : Individual 1 : synchronizatio
3	Position Horizontal	Revise Horizontal Position	100	85 - 115	
4	Position Vertical	Revise Vertical Position	100	85 - 115	
5	Aspect Enable	Aspect Adjustment Enable	0	0 - 1	0: TRUE 1: FALSE
Group 280 AutoPC Adjstut					
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Frequency Threshold	5	0 - 10	0 [] <--- ----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 7	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290 PanelType * Panel Type Check					
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500 Composite (NTSC) Composite / S-Video					
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501 Composite (PAL) Composite / S-Video					
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502 Composite (SECAM) Composite / S-Video					
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510 SCART(480i)					
0					
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	

Group/Item	Item Name	Function	Initial	Range	Note
Group 511 SCART (575i)					
0					
1	Disp Dots		648	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		63	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 520 YCbCr (480i)					
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		147	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521 YCbCr (575i)					
0	Total Dots		864	0 ~ 4095	
1	Disp Dots		650	0 ~ 4095	
2	H Back Porch		163	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 522 YCbCr (480P)					
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523 YCbCr (575P)					
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		143	0 ~ 4095	
3	V Back Porch		55	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524 YCbCr (720P - 60)					
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		312	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525 YCbCr (720P - 50)					
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		337	0 ~ 4095	
3	V Back Porch		35	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526 YCbCr (1080i - 60)					
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		255	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527 YCbCr (1080i - 50)					
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		255	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 528 YCbCr (1035i)					
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		90	0 ~ 4095	

Service Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
4	Disp Line		1012	0 ~ 4095	
Group 540 RGB Video (480i)					
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 541 RGB Video (575i)					
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		66	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 542 RGB Video (480P)					
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 543 RGB Video (575P)					
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
Group 544 RGB Video (720P - 60)					
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		312	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
Group 545 RGB Video (720P - 50)					
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		314	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
Group 546 RGB Video (1080i - 60)					
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		255	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 547 RGB Video (1080i - 50)					
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 548 RGB Video (1035i)					
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		90	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 549 RGB Video (1080P - 60)					
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	

Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		90	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 550 RGB Video (1080P -50)					
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 551 RGB Video (1080P -30)					
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		1066	0 ~ 4095	
Group 552 RGB Video (1080P -25)					
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		1064	0 ~ 4095	
Group 553 RGB Video (1080P -24)					
0	Total Dots		2750	0 ~ 4095	
1	Disp Dots		1878	0 ~ 4095	
2	H Back Porch		214	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		1070	0 ~ 4095	
Group 560 HDCP (480P)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 561 HDCP (575P)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 562 HDCP (720P-60)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 563 HDCP (720P-50)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 564 HDCP (1080i-60)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 565 HDCP (1080i-50)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 566 HDCP (1035i)					
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEG		2	0 - 15	
Group 981 Color Shading Adj Offset					
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis over view

The diagram illustrates the chassis architecture, showing the interconnections between various components and their respective signals.

Input and Processing:

- PC1 INPUT [RGB/SCART]:** Connected to **IC5201 PC1/PC2-SW <AN5870>** via **RGB,H/V** signals (pins 1,5,11,15,17).
- PC2 INPUT [RGB] [COMPONENT]:** Connected to **IC4001** via **RGB,H/V** signals (pins 3,7,13,16,18).
- MONITOR OUT [RGB]:** Connected to **IC4011** via **RGB,H/V** signals (pins 3,7,13,16,18).
- IC4001** and **IC4011** are connected to **IC5201** via **RGB,H/V** signals (pins 22,20).
- IC5201** is connected to **IC5301 SYNC SEP. <BA7078>** via **HS1 VS1** signals (pins 11,13).
- IC5301** is connected to **IC301 SCALER <PW190>** via **RGB** signals (pins 82,260,258) and **H/V** signals (pins 262,264).

Audio and Video Output:

- IC5001 AUDIO CONTROL <NJW1141>** is connected to **IC5041 AUDIO OUTPUT <TDA7056at>** via **PC_L/R** (pins 4,27), **VIDEO_L/R** (pins 1,30), and **L/R** (pins 9,22) signals.
- IC5041** is connected to **SP901 SPEAKER** via **14,17** signals.
- IC5001** is connected to **IC891 INVERTER** via **10** signals.
- IC891** is connected to **IC3801 RS232C DRIVER <SP232>** via **7,13** signals.

Control and Status:

- IC301** is connected to **IC801 FLASH ROM** via **A[1-23]** signals.
- IC301** is connected to **IC401 LCD DRIVER & GAMMA CORRECTION <L3E07110>** via **124,368** signals.
- IC401** is connected to **IC501 B-D/A S&H <L3E06150>**, **IC531 G-D/A S&H <L3E06150>**, and **IC561 R-D/A S&H <L3E06150>** via **18,17,16** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561 R-LEVEL SHIFT <L3E01080>** via **28,29,135** signals.
- IC2561** is connected to **IC7201 FPGA** via **DHS,DVS,DCLK** signals.
- IC7201** is connected to **IC401** via **18,17,16** signals.

Display and Control:

- IC401** is connected to **B-LCD PANEL**, **G-LCD PANEL**, and **R-LCD PANEL** via **TP35B**, **TP35G**, and **TP35R** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **DB[0-9]**, **PW_DG[0-9]**, and **PW_DR[0-9]** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

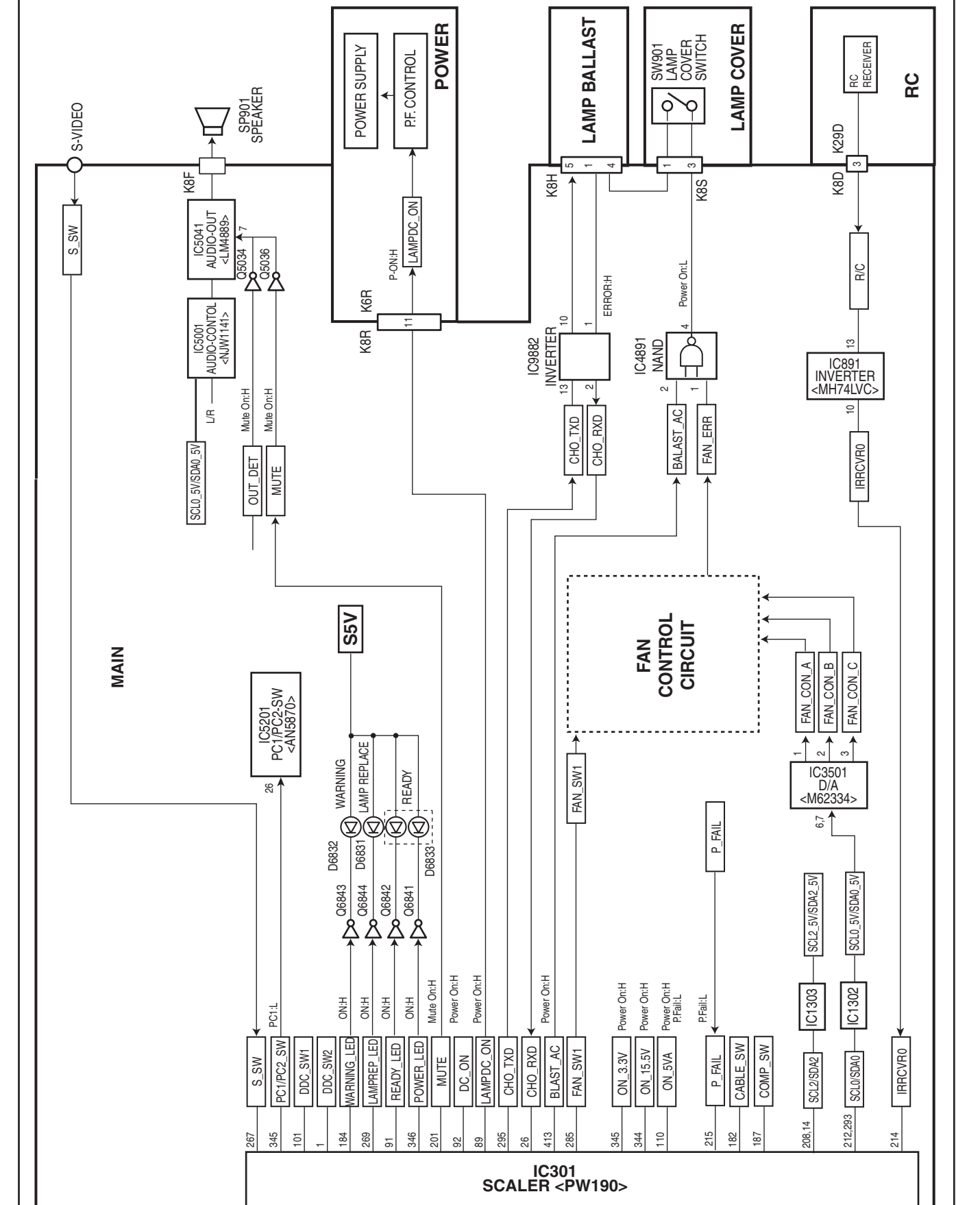
Control and Status:

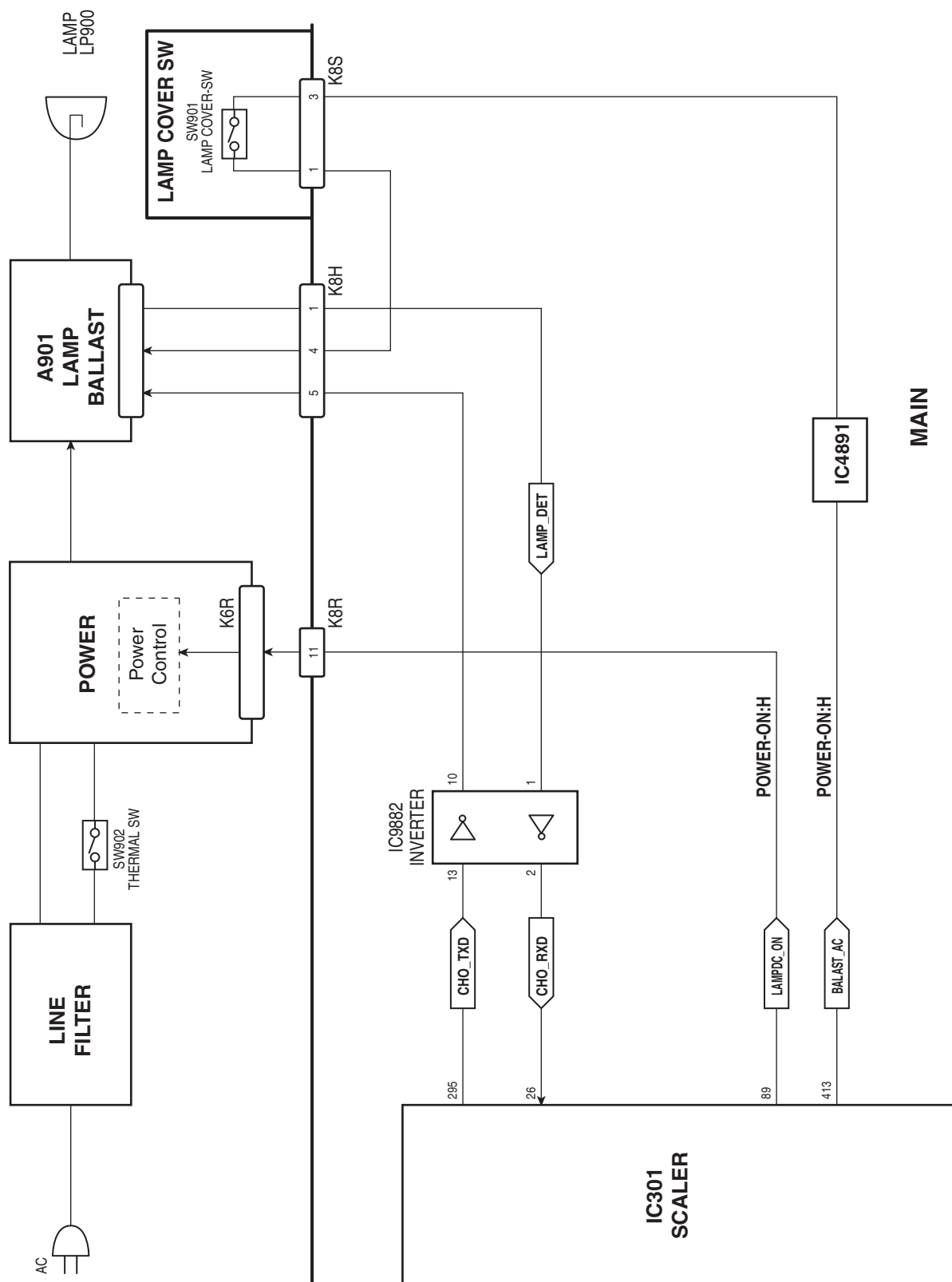
- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals.
- IC501**, **IC531**, and **IC561** are connected to **IC2561** via **28,29,135** signals.
- IC2561** is connected to **IC7201** via **DHS,DVS,DCLK** signals.

Control and Status:

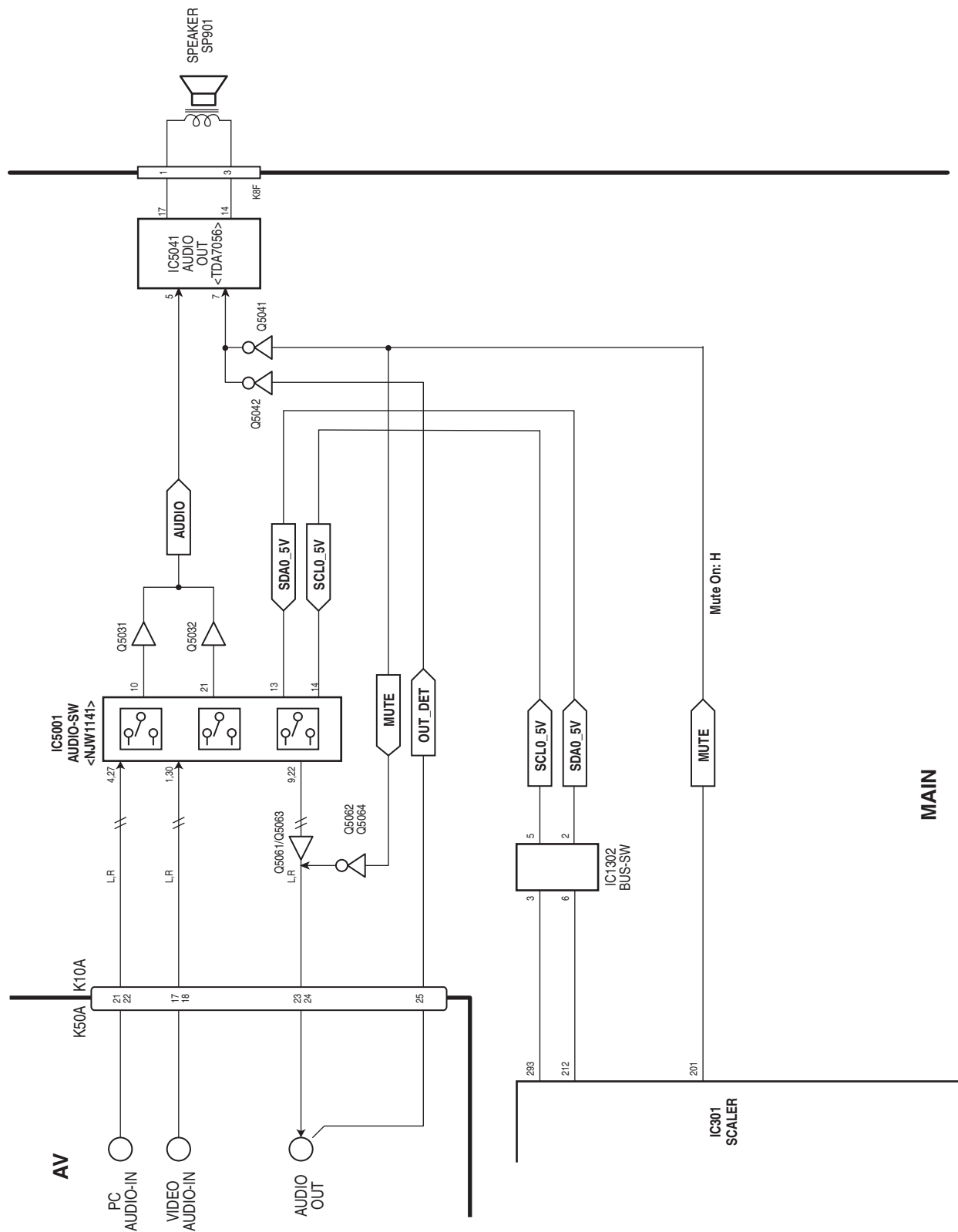
- IC301** is connected to **IC801** via **124,368** signals.
- IC301** is connected to **IC401** via **18,17,16** signals.
- IC401** is connected to **IC501**, **IC531**, and **IC561** via **28,29,135** signals

System control	
-----------------------	--

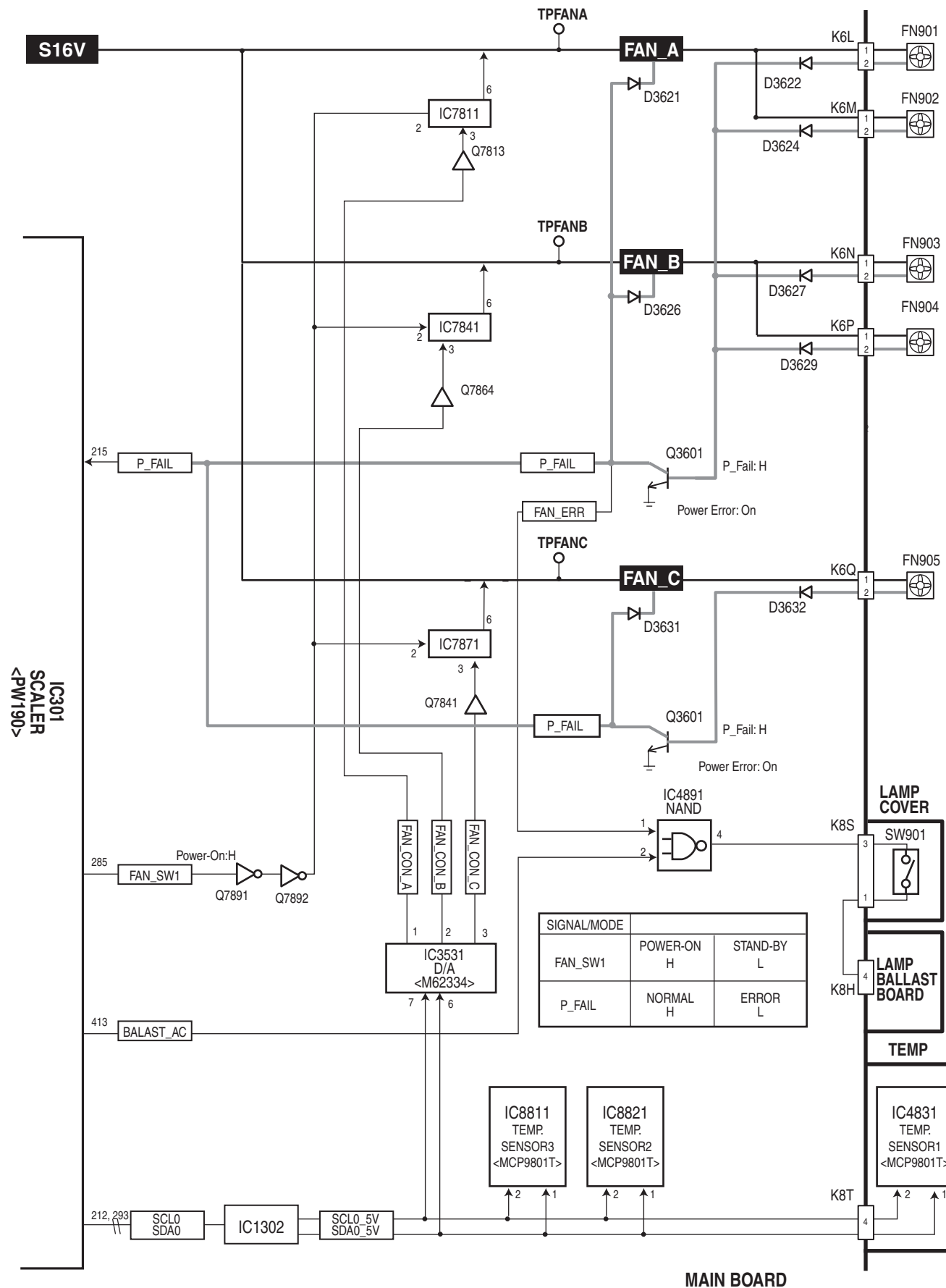




Audio circuit



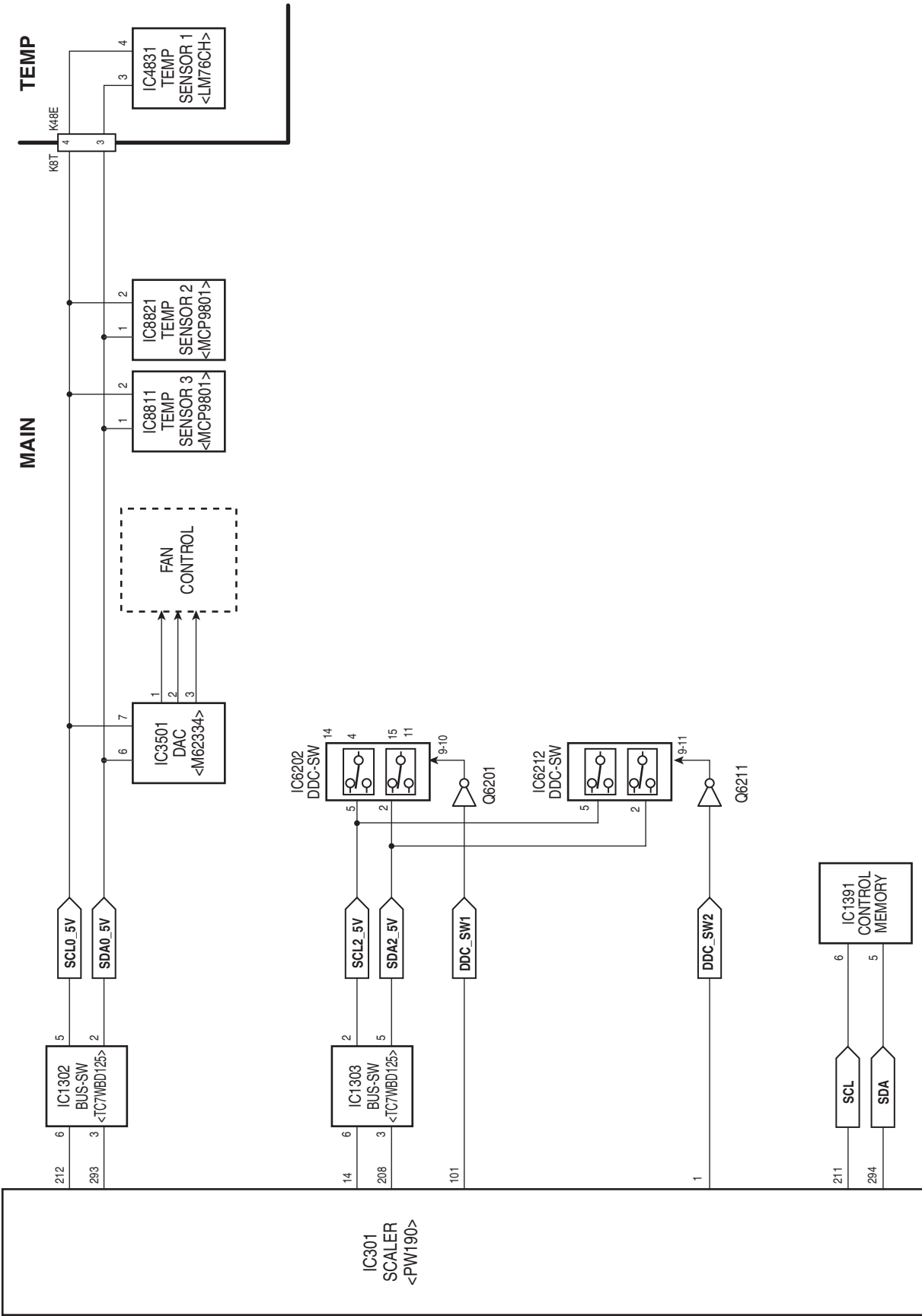
Fan control circuit



Alarm circuit



IIC bus control circuit



■ Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The projector is off. (The AC power cord is unplugged.)
			The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
			The projector is ready to be turned on with the POWER ON-OFF button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filter.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
			The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

 • • • green.

 • • • red

 • • • off

 • • • blinks green.

 • • • blinks red.

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord, F601 (Fuse), Power board,

SW902 (Thermal sw.) short in normal

SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING (red) and POWER (red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8811 (Lamp), IC8821 (Panel) on the Main board and IC4831 (Room) on the Temp. board

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SCALER> when the abnormality occurs inside the projector, and then the IC301 sends the shutdown signal, LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies 16V, S6V, S-5V S16V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

ON_15.5V signal (Power-on: H) is output from pin 344 of IC301 and 16V supply circuit. ON_5VA signal (Power-on: H) is output from pin 110 of IC301 and switches Q3582, 5VA supply circuit. 9V_AUDIO supply circuit. ON_3.3V signal (Power-on: H) is output from pin 345 of IC301 and switches IC1401, 3.3V_A supply circuit and IC7261.

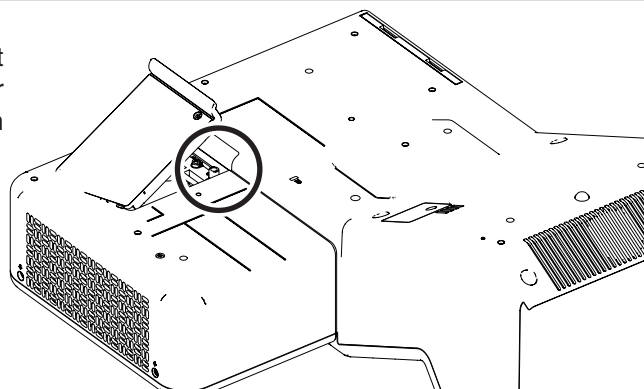
LAMPDC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC601, on the power supply board through Q681, and PC602.

BALAST_AC signal (Power-on: H) is output from pin 413 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.

CHO_RXD signal at pin 26 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

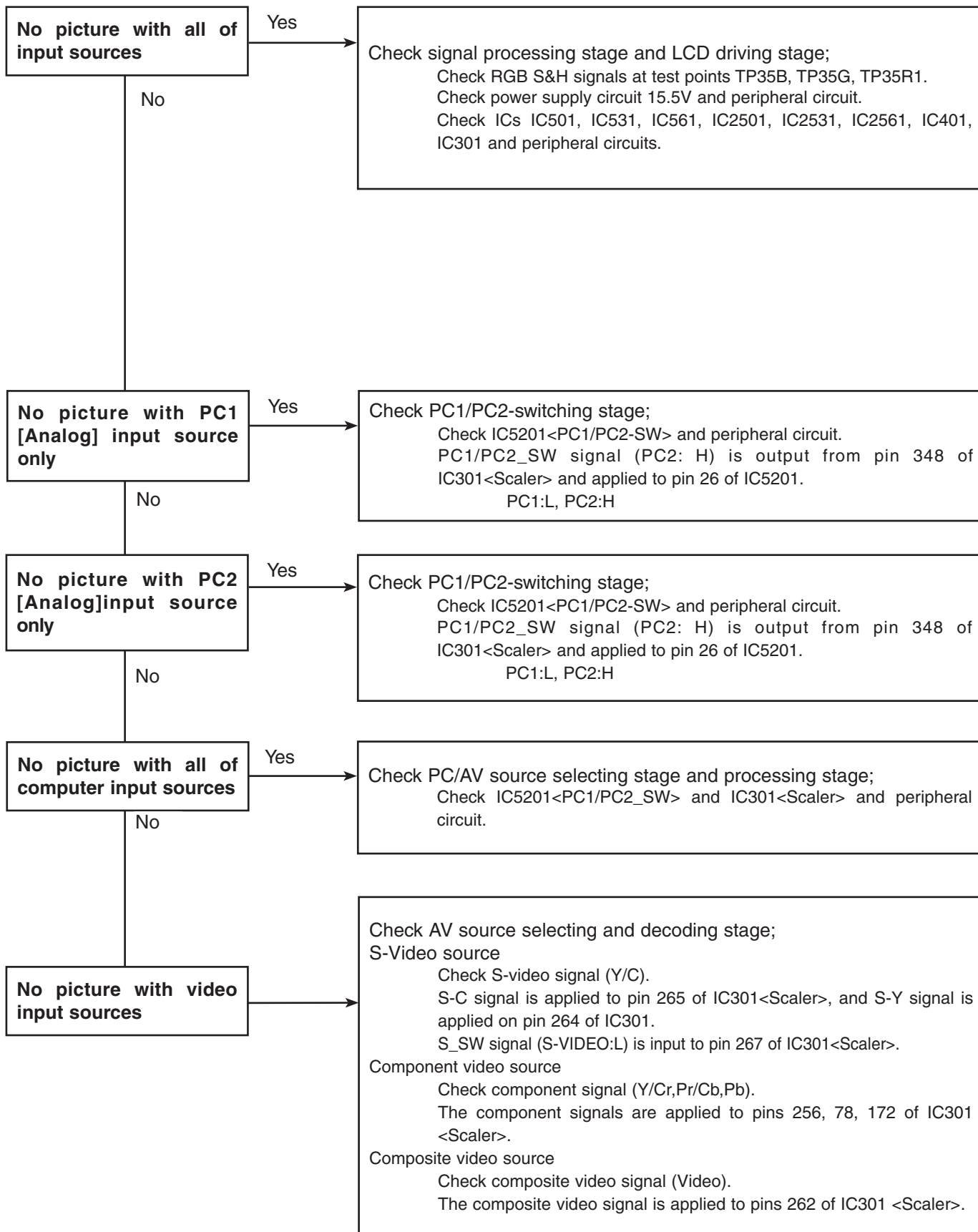
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



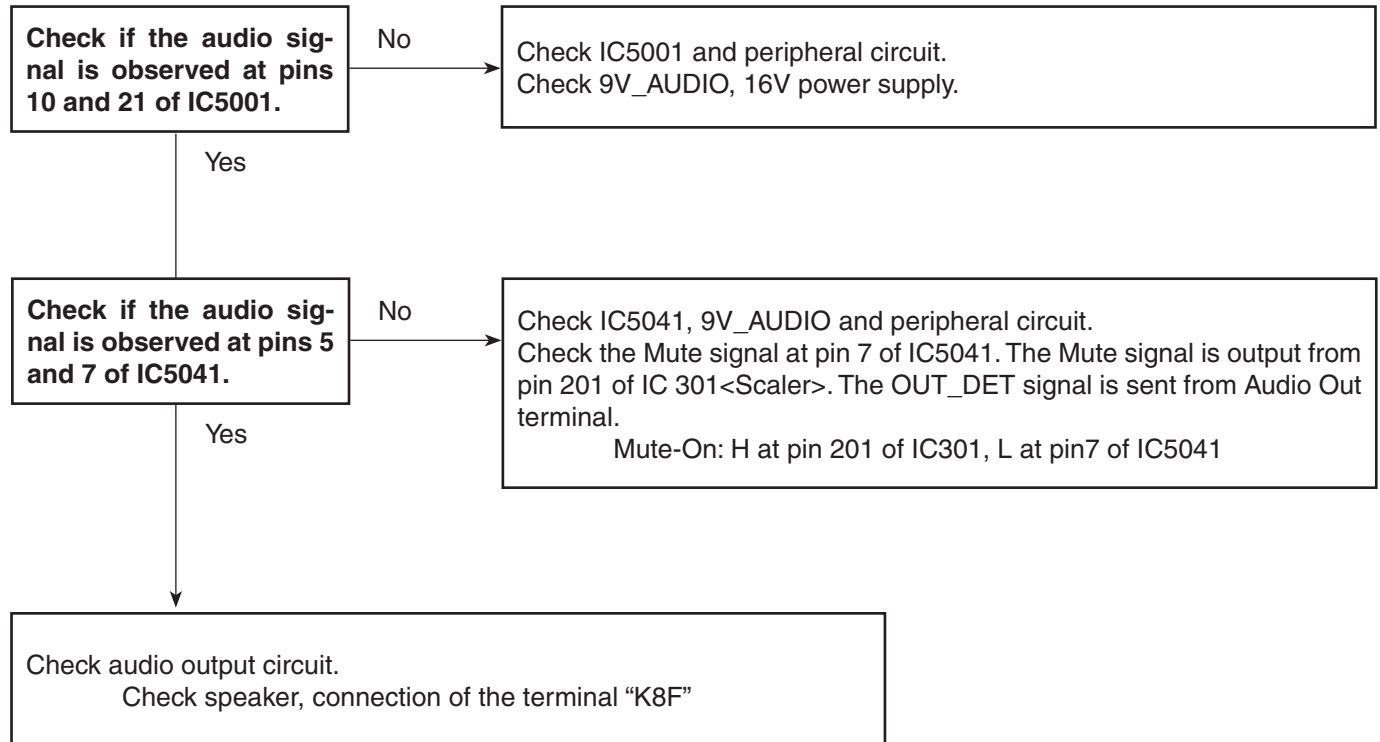
No Picture

Check following steps.



No Sound

Check following steps.



Control Port Functions

Scaler I/O Port Functions (PW190)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
90	M1	PORTA0	I/O	XSTDBYEN	Standby mode Enable/disable	O
183	M2	PORTA1	I/O	XRESET	I/O Expander Reset	O
474	N6	PORTA2	I/O	WAKE UP	for I/O Expander	I
89	N1	PORTA3	LAMP	LAMP_DC_ON	Lamp Control, Power On: H	O
443	N5	PORTA4	LAMP	BLAST_AC	Power Control, Power On: H	O
182	N2	PORTA5	SIGNAL	CABLE_SW	Long Cabke Switch Output,Long Cable: H	O
267	N3	PORTA6	SIGNAL	S_SW	S-Video Input Switch	I
344	N4	PORTA7	POWER	ON_15.5V	15.5V Power Drive. Power ON: H	O
236	M3	PORTB0	SIGNAL	MONIT_OUT	Monitor Out/Computer Switch Monitor Out : H	O
185	K2	PORTB1	LAMP	LAMP_DET	Power Control, Power On: H	I
202	M4	PORTB2	POWER	ON_3.3V	3-Wired Serial Control Data	O
204	K1	PORTB3	POWER	DC_ON	IIC Bus Control Clock	O
346	L4	PORTB4	LED	POWER_LED	V-Sync. Output	O
91	L1	PORTB5	LED	READY_LED	IIC Bus Control Data	O
184	L2	PORTB6	LED	TEMP_LED	IIC Bus Control Clock	O
269	L3	PORTB7	LED	LAMP_LED	IIC Bus Control Data	O
363	E15	PORTC0		-	Noy Used	-
111	B12	PORTC1	GAMMA	SCS_PW	3wirw Chip Select	O
262	C12	PORTC2	GAMMA	SDATA_PW_EXT	3wire Data	O
285	D12	PORTC3	FAN	FAN_SW1	Fan_Control_1 ON:H	O
362	E14	PORTC4	GAMMA	IRM_RST	Digital Gamma Reset Reset:L	O
41	A11	PORTC5	POWER	PC1/PC2_SW	PC1/PC2 Switch PC1 : L	O
110	B11	PORTC6	POWER	ON_5VA	5V Power On/Off ON: H	O
201	C11	PORTC7	POWER	MUTE	Audio Mute ON : H	O
160	AE12	PORTD0/A20	ADR	A20	Address 20	O
65	AF12	PORTD1/A21	ADR	A21	Address 21	O
329	AC9	PORTD2/A22	ADR	A22	Address 22	O
249	AD10	PORTD3/A23	ADR	A23	Address 23	O
347	K4	PORTD4	-	-	Not Used	-
278	D5	PORTD5	-	-	Not Used	-
101	B2	PORTD6	AUDIO	DDC_SW1	DDC Mode Switch OFF :L	O
1	A1	PORTD7	DVI	DDC_SW2	DDC Mode Switch OFF :L	O
356	E5	PORTE0/IN1R2	SIGNAL	FPGA_STATUS	Config Status Signal	I
276	D3	PORTE1/IN1R3	SIGNAL	FPGA_CONFIG_DONE	Config Process End Signal	I
352	E4	PORTE2/IN1R4	SIGNAL	STB_FPGA	FPGA Chip Select (Strobe)	O
99	C1	PORTE3/IN1R5	SIGNAL	CONFIG_FPGA	Config Start Pin	O
191	D2	PORTE4/IN1R6	SIGNAL	I/O_TXD0	Alarm	I
275	E3	PORTE5/IN1R7	SIGNAL	I/O_AN3	Alarm	I
98	D1	PORTE6/IN1R8	SIGNAL	I/O_ALARM_OUT	Alarm	I
190	E2	PORTE7/IN1R9	SIGNAL	FAULT	Alarm	I
97	E1	PORTF0/IN1G2	-	FAN_CON_C	Not Used	-
189	F2	PORTF1/IN1G3	-	MUTE	Not Used	-
420	F5	PORTF2/IN1G4	-	SICLK	Not Used	-
273	G3	PORTF3/IN1G5	-	SIDEN	Not Used	-
96	F1	PORTF4/IN1G6	SIGNAL	I/O_RXD0	Alarm	O
188	G2	PORTF5/IN1G7	SIGNAL	I/O_CKLO	Alarm	O
419	G5	PORTF6/IN1G8	SIGNAL	I/O_TC	Alarm	O
95	G1	PORTF7/IN1G9	SIGNAL	INH	Alarm	O
187	H2	PORTG0/IN1B2	SIGNAL	COMP_SW	Component DEtect	I
94	H1	PORTG1/IN1B3	-	-	Not Used	-
348	J4	PORTG2/IN1B4	-	-	Not Used	-
271	J3	PORTG3/IN1B5	-	-	Not Used	-
349	H4	PORTG4/IN1B6	-	-	Not Used	-
186	J2	PORTG5/IN1B7	-	-	Not Used	-
418	H5	PORTG6/IN1B8	-	-	Not Used	-
93	J1	PORTG7/IN1B9	-	-	Not Used	-
368	E20	PORTH0/RXD[0]	RXD_PW	RXD_PW	UART RXD	I

(Continue)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
124	B25	PORTH1/TXD[0]	SIGNAL	TZD_PW	UART TXD	O
211	C21	PORTH2	SIGNAL	SCL1	IIC Bus SCL1	I/O
294	D21	PORTH3	SIGNAL	SDA1	IIC Bus SDA1	I/O
290	D17	PORTH4	SIGNAL	IIC Bus SCL2	IIC Bus SCL2	I/O
208	C18	PORTH5	SIGNAL	SDA2	IIC Bus SDA2	I/O
293	D20	PORTH6	SOG MUX input Ch1	SCL0	IIC Bus SCL0	I/O
212	C22	PORTH7	SOG MUX input Ch0	SDA0	IIC Bus SDA0	I/O
296	D23	PORTI6	OPTION	XE50/XL50	XE50/XL50 Model Detect XE50 : L	I
205	C15	PORTI7	-	PW_DE	Data Enable	O
40	A10	PWM0	-	-	Not used	-
284	D11	PWM1	-	-	Not used	-
109	B10	PWM2	-	-	Not used	-
200	C10	PWM3	-	-	Not used	-
215	D24	ADC0	P_FAIL	P-FAIL	Power Failure Signal Input Failure : L	I
28	C26	ADC1	KEY	KEY1	Key Control Input	I
126	D25	ADC2	KEY	KEY2	Key Control Input	i
216	E24	ADC3	KET	KEY3	Key Control Input	i
298	F23	ADC4	OPTION	BRAND_OPTION	Option Switch BRAND	I
370	E22	ADC5	-	-	Not Used	-
29	D26	ADC6	OPTION	LAMP_OPTION	Lamp Option	I
127	E25	ADC7	ALARM	BATT	Alarm	I

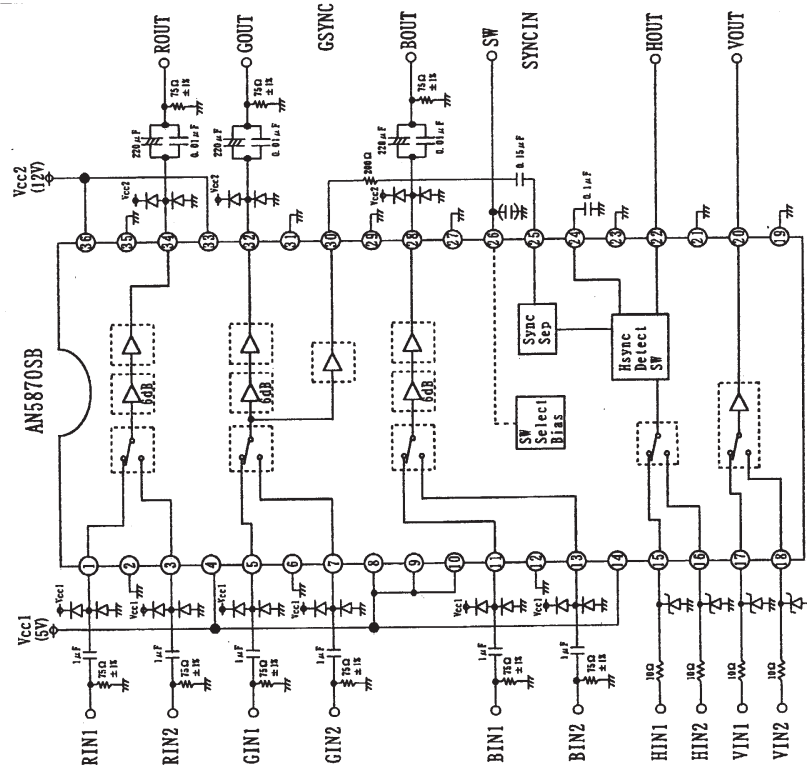
IIC Bus D/A Converter Port Functions (M62334)

PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	FAN_CON_A	Fan Control Analog Output	AO
2	A2	FAN_CON_B	Fan Control Analog Output	AO
3	A3	FAN_CON_C	Fan Control Analog Output	AO
4	A4	NOT USED	-	AO
5	GND	GND	-	-
6	SDA	SDA	IIC BUS SDA(5V)	I/O
7	SCL	SCL	IIC BUS SCL(5V)	I/O
8	Vcc	Vcc	-	-

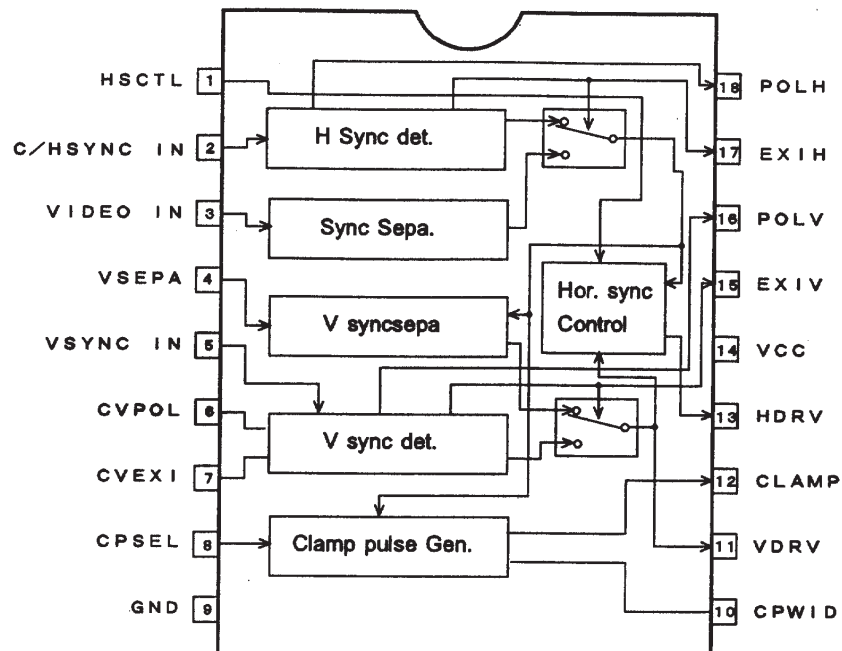
[illegible]

IC Block Diagrams

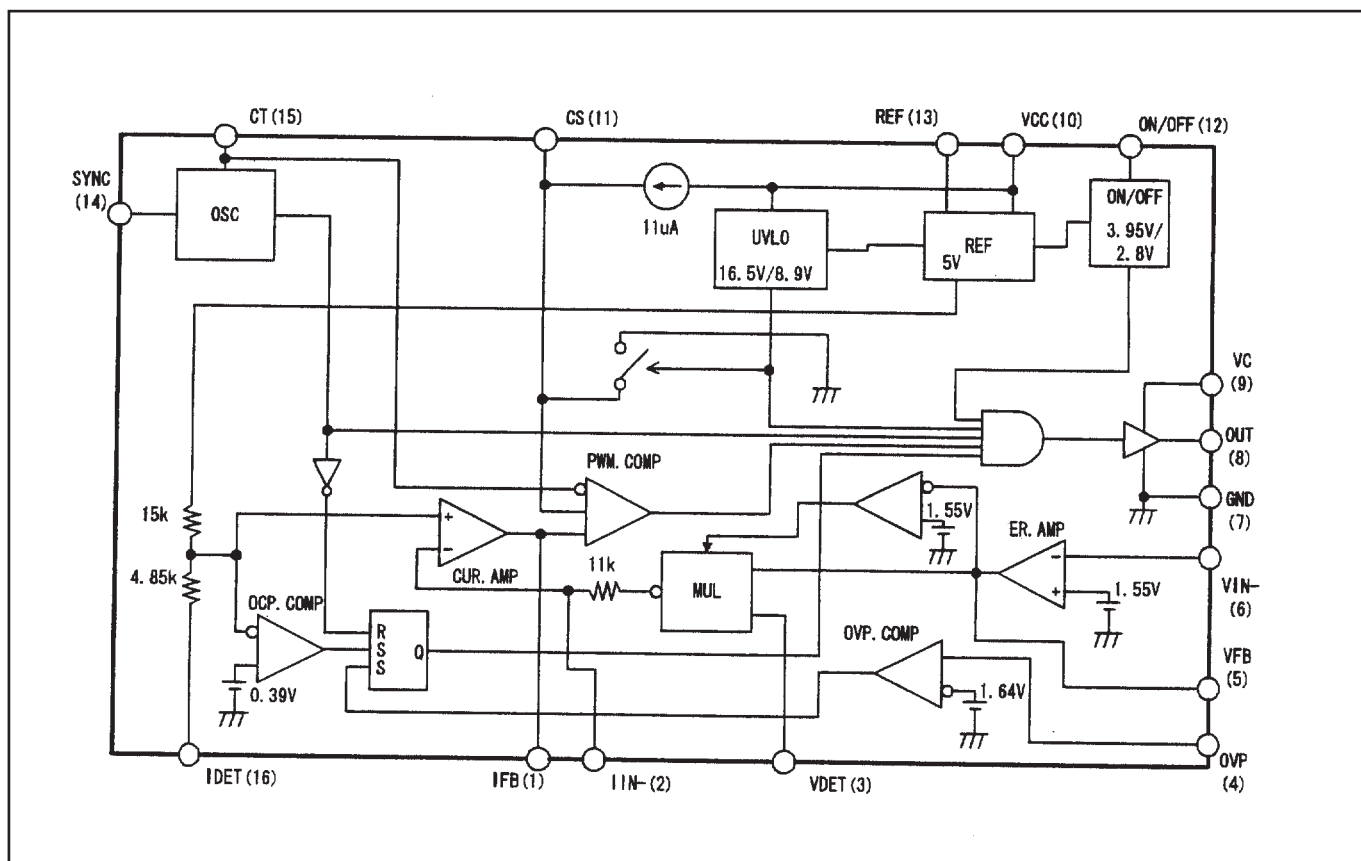
● AN5870 <Signal Switch, IC5201>



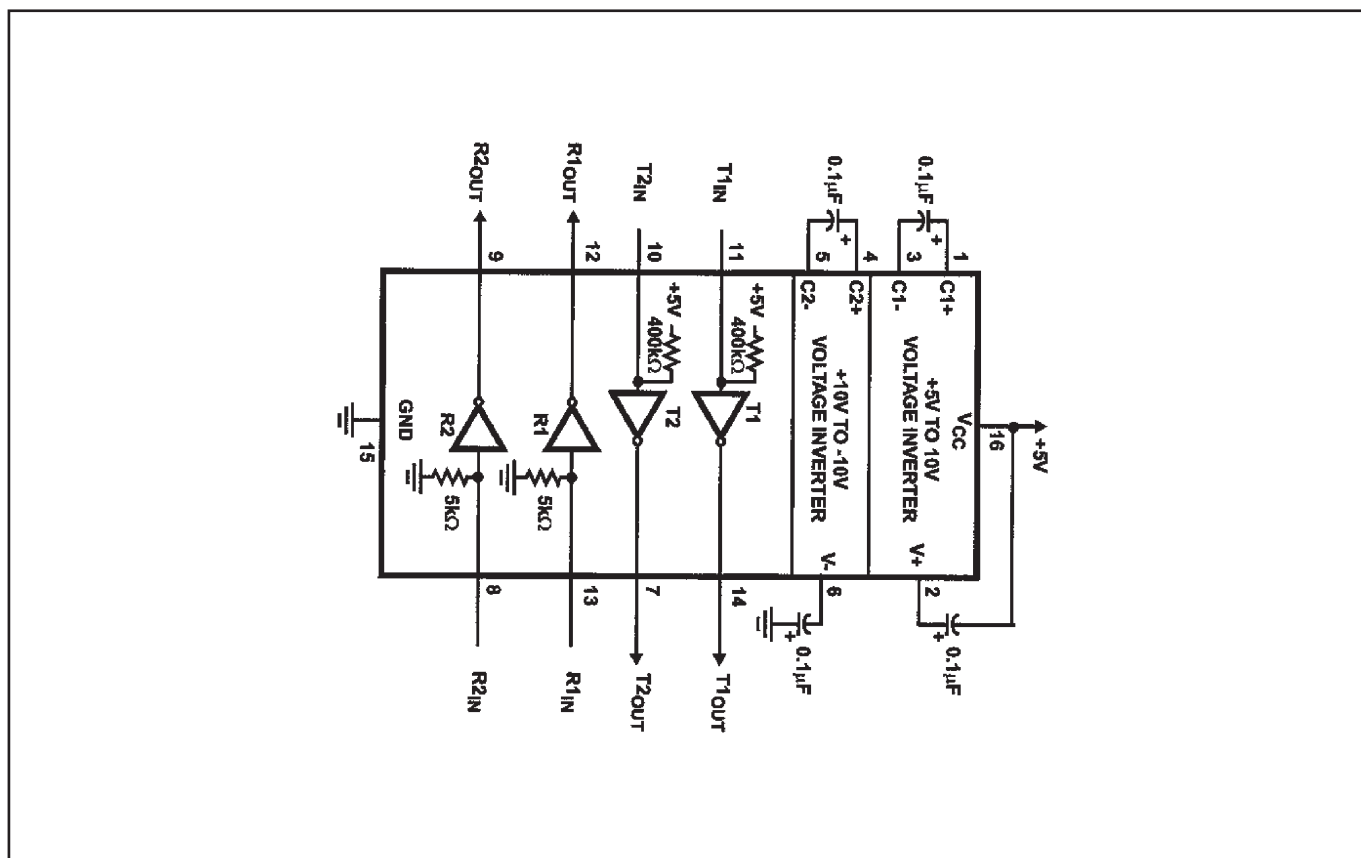
● BA7078 <Sync Separator, IC5301>

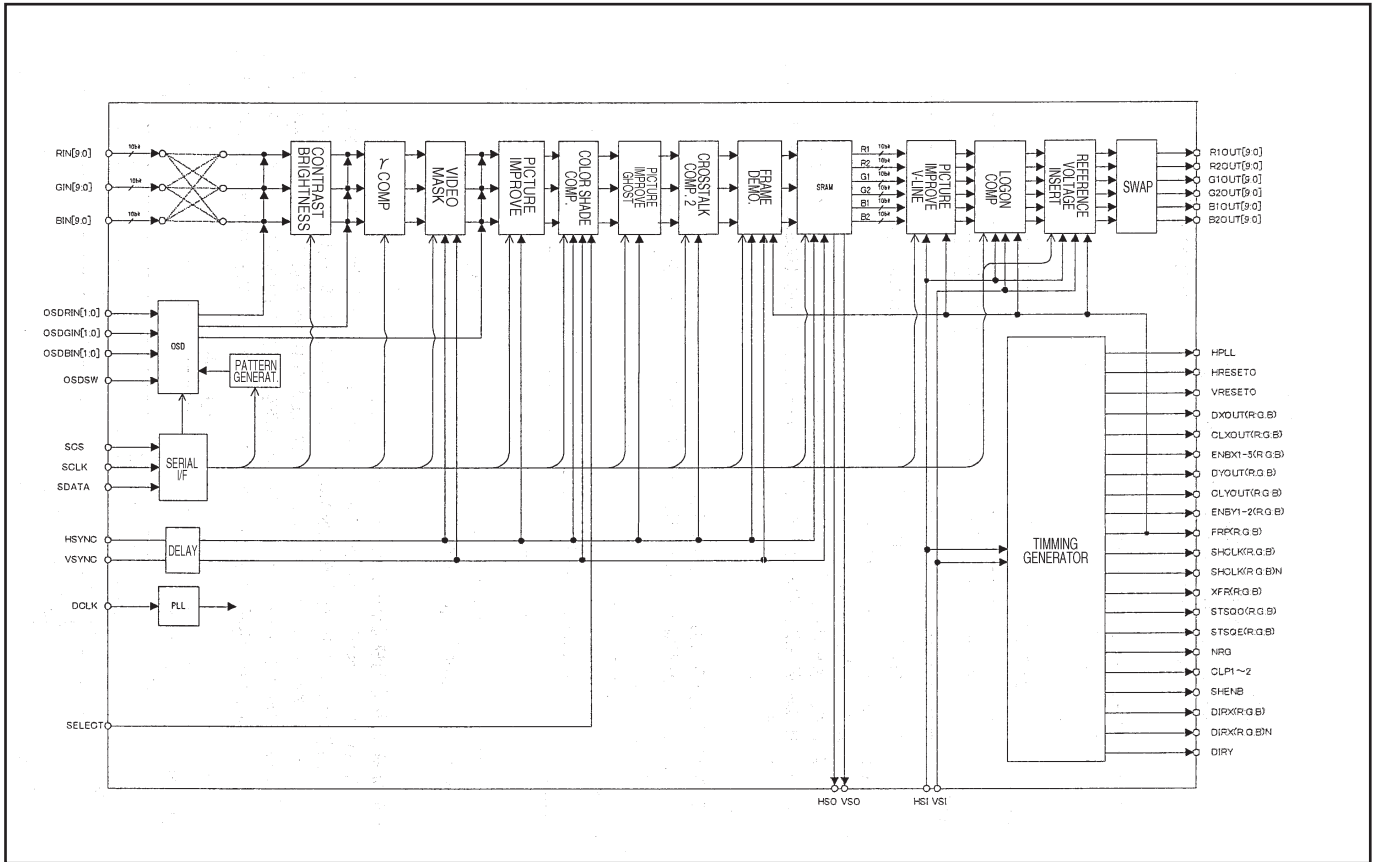
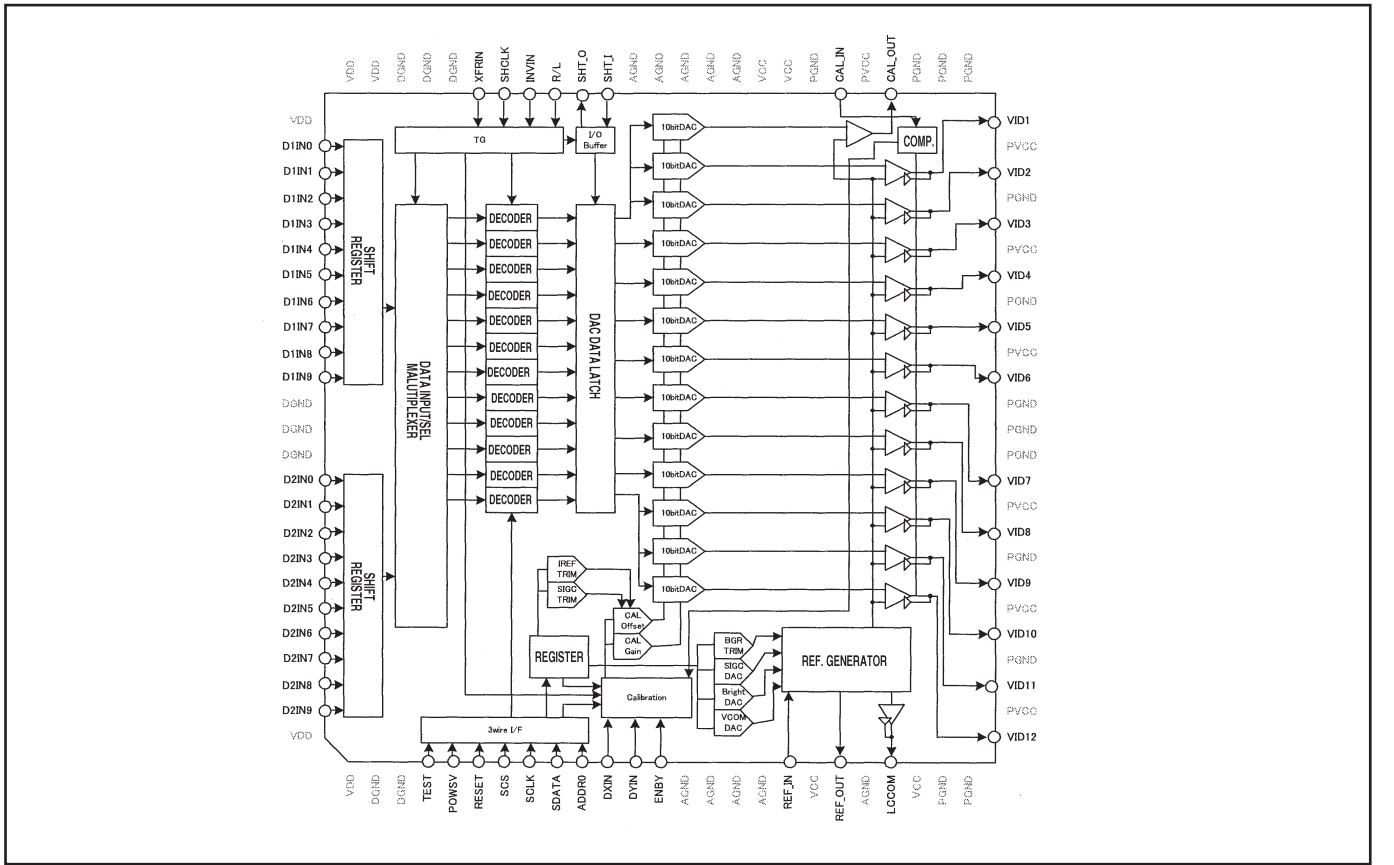


● FA5502 <P.F. Control, IC601>

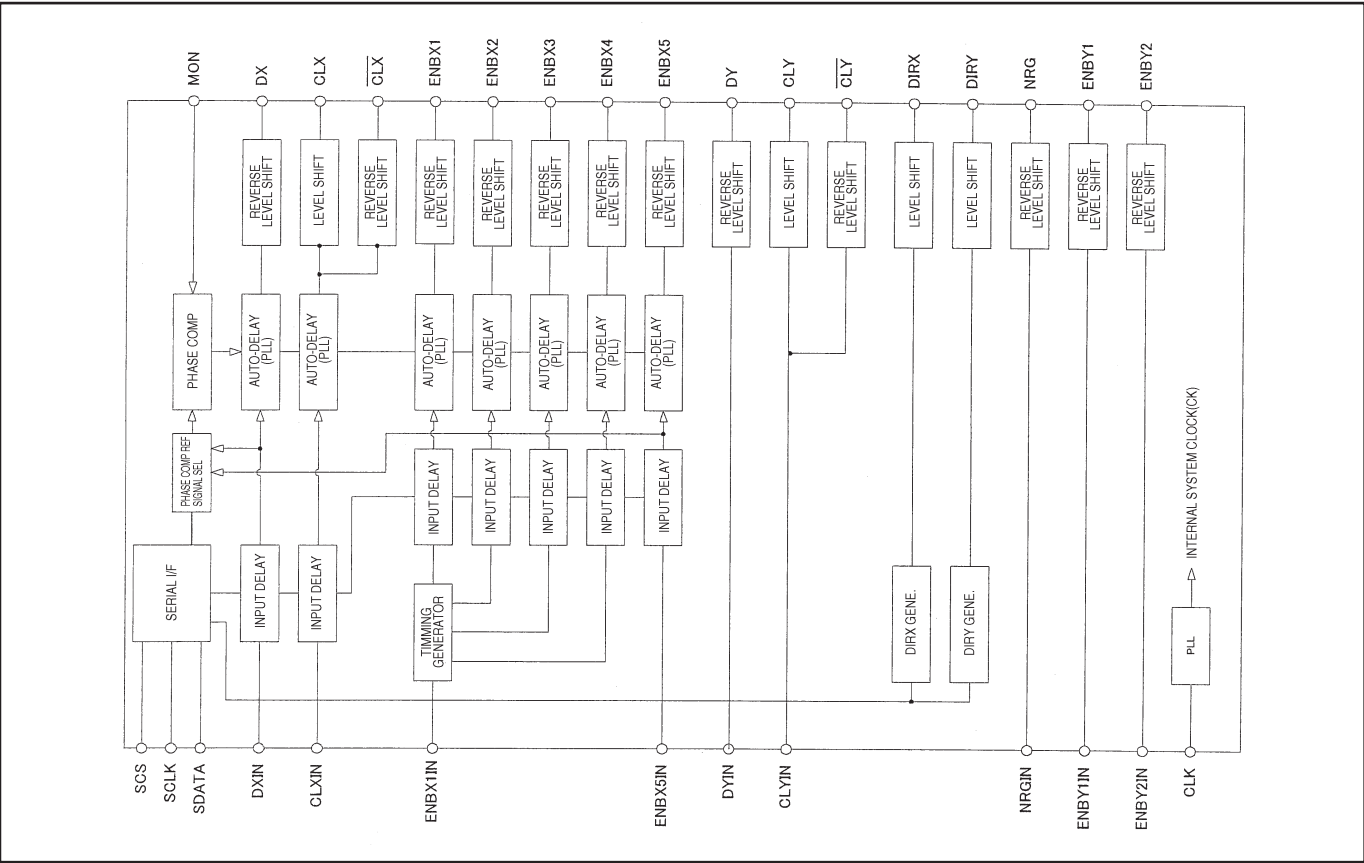


● HIN202EIB <RS-232C Driver, IC3801>

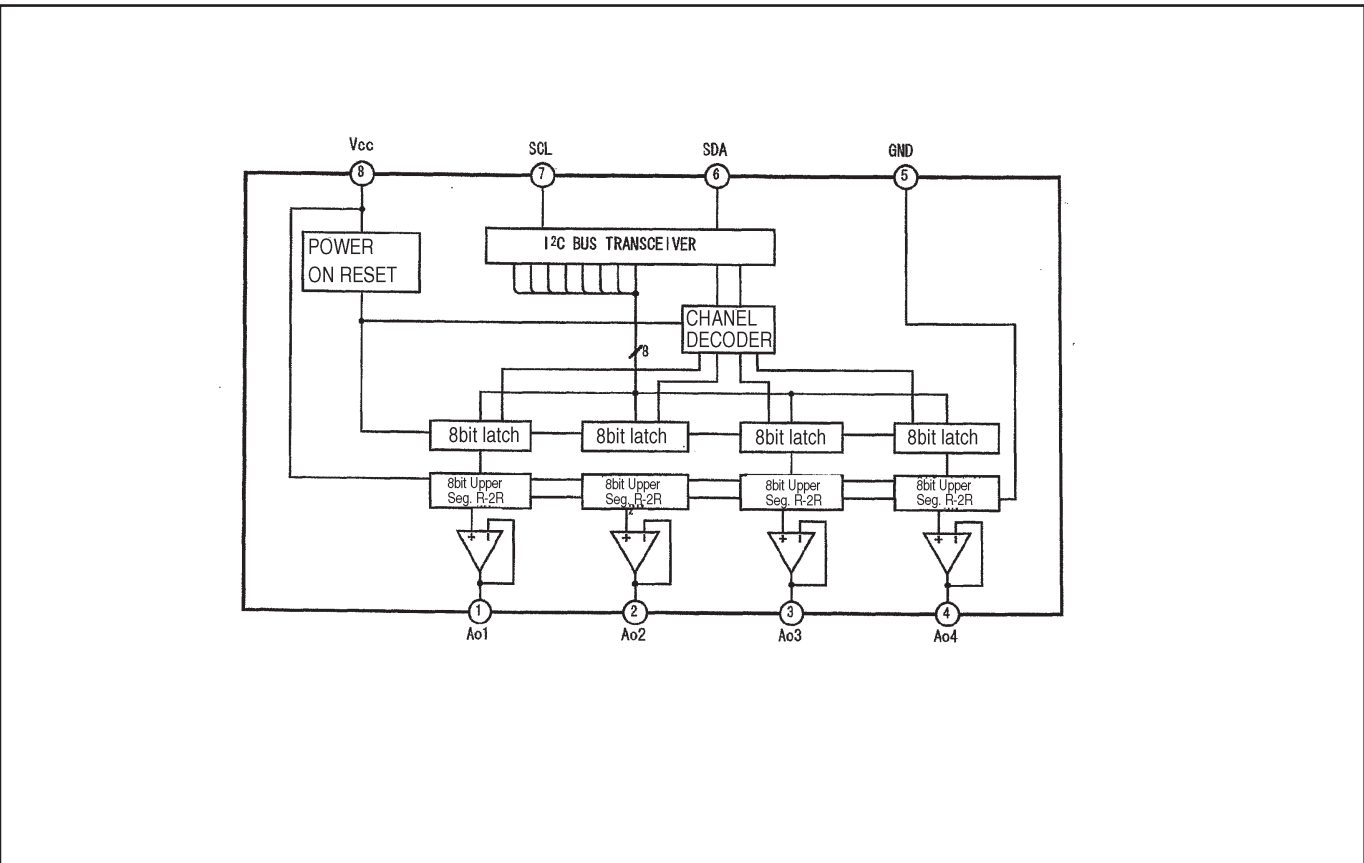




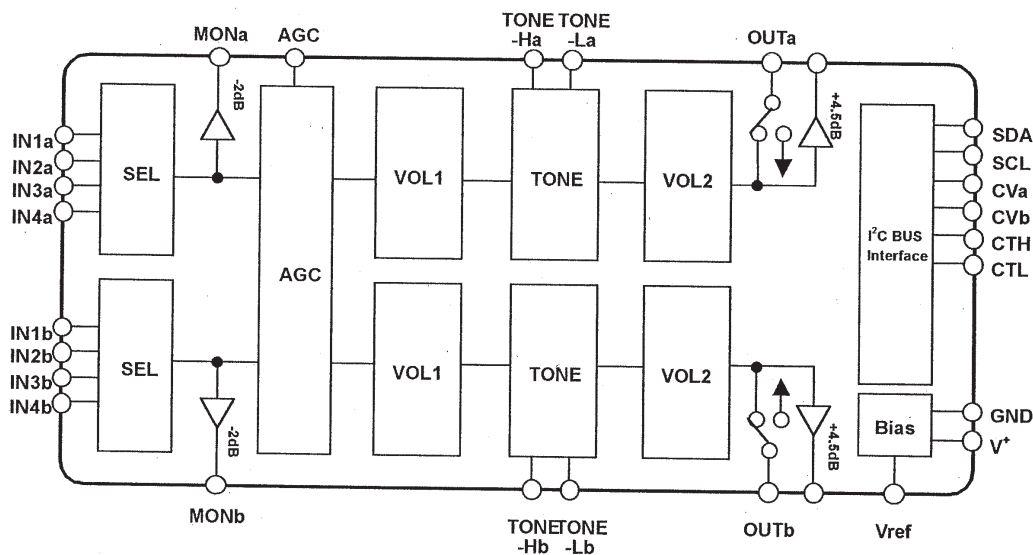
● L3E01060 <Level Shift, IC2501, IC2531, IC2561>



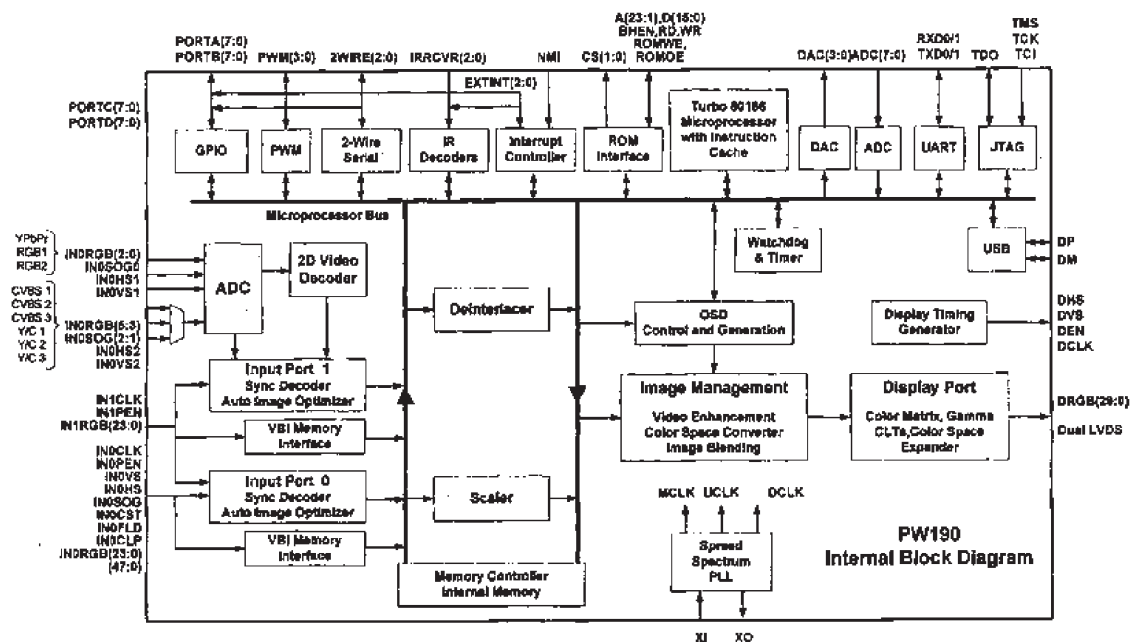
● M62334 <DAC, IC3501>



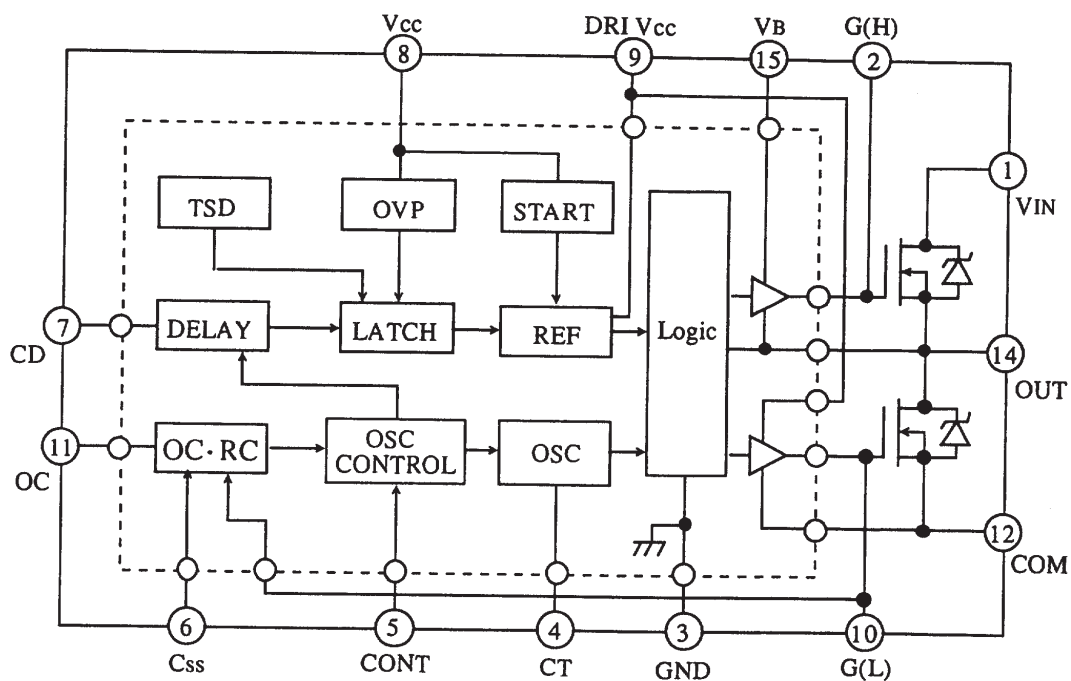
● NJW1141 <Audio Control, IC5001>



● PW190 <Scaler, IC301>



● STR-Z2156<Power OSC, IC651>

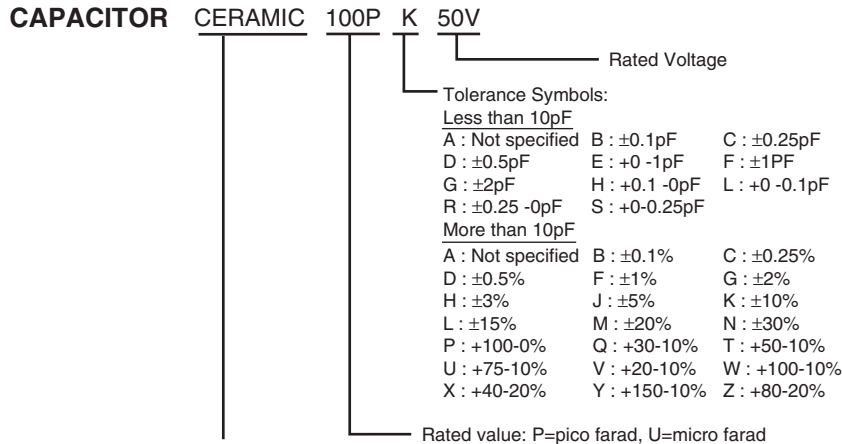


Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

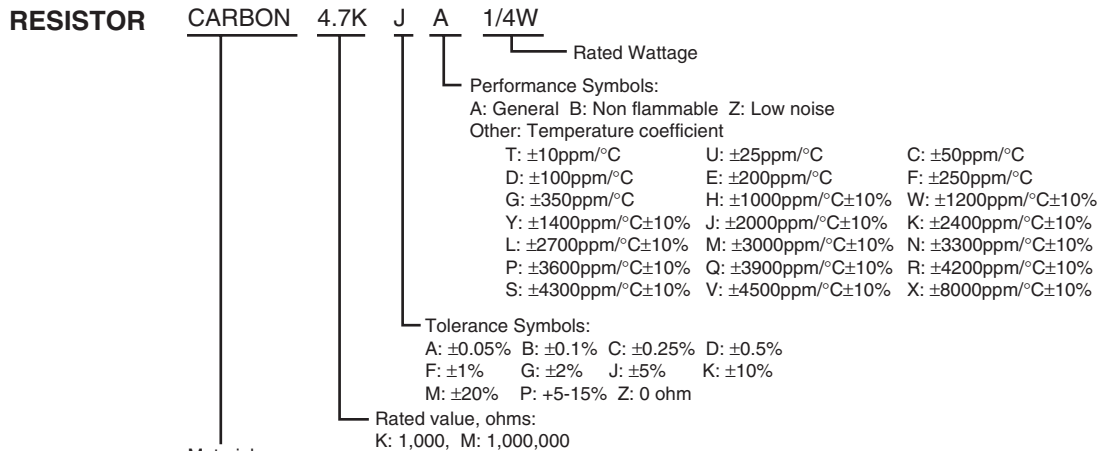
● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:



Material:

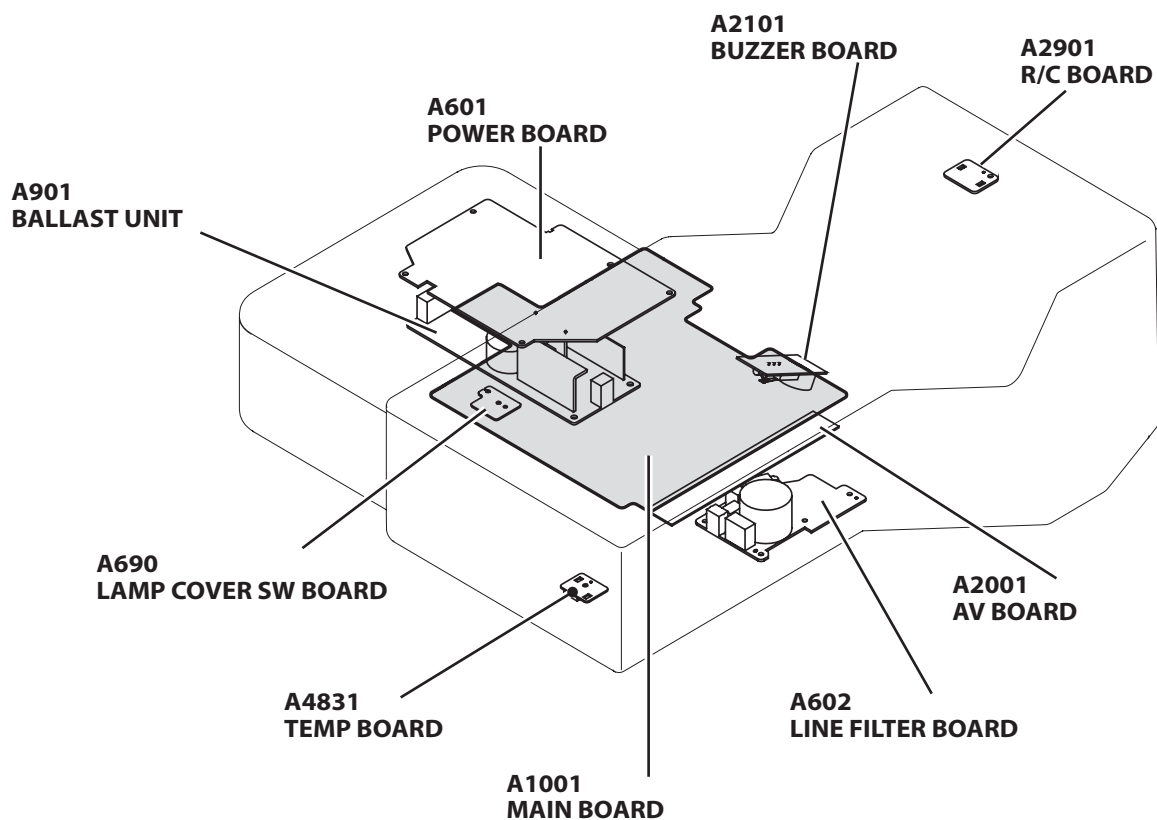
CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Oxide Solid Electrolytic
AL-SOLID..... Aluminium Solid Electrolytic
ELECT..... Aluminum Foil Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID..... Polymerized Organic Semiconductive
DL-ELECT..... Double Layered Electrolytic
PPS-FILM..... Polyphenylene Sulfide Film
MT-PPS-FILM..... Metalized Polyphenylene Sulfide Film
MT-PEN-FILM..... Metalized Polyethylenenaphthalate Film
CAPACITOR..... Other



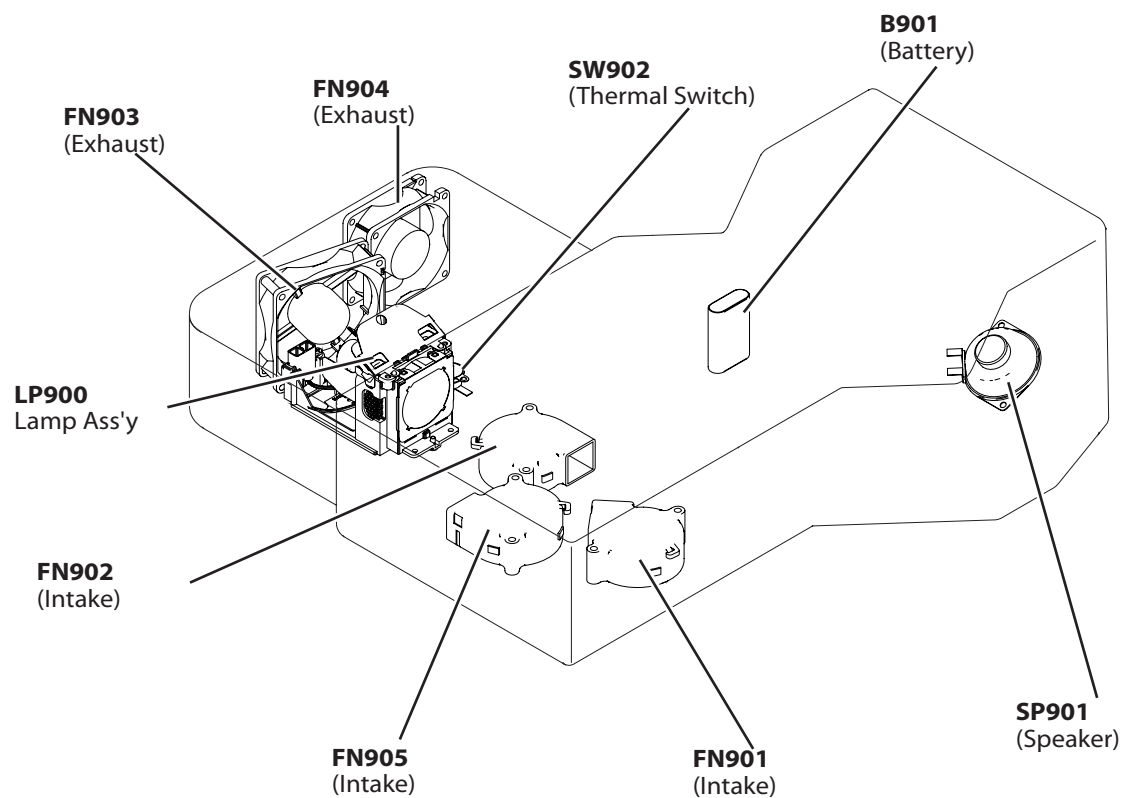
Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES.... Fusible
RESISTOR Other

● Assembled Board



● Out of Circuit Board



Electrical Parts List

Key. No. Part No. Description			Key. No. Part No. Description		
Assembled Boards					
△	610 335 8185	ASSY,PWB,MAIN KL3A	Q2021	305 173 9915	TR 2SC3928A1S
△	610 335 8161	ASSY,PWB,AV KL3A		305 014 4512	TR 2SC2412K T146 R
△	610 335 7867	ASSY,PWB,BUZZER KL3A		305 014 4611	TR 2SC2412K T146 S
△	610 335 7904	ASSY,PWB,R/C KL3A		305 015 8727	TR 2SC2812-L6-TB
△	610 335 7898	ASSY,PWB,LAMP COVER SW		305 015 8925	TR 2SC2812-L7-TB
△	610 335 8239	ASSY,PWB,TEMP KL3A	Q2071	305 163 1615	TR 2SC2812N-L6-TB0
△	610 335 7843	ASSY,PWB,POWER KL3A		305 173 9816	TR 2SC3928A1R
△	610 335 7812	ASSY,PWB,LINE FILTER		305 173 9915	TR 2SC3928A1S
				305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
			Q2076	305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q2081	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
			Q2091	305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
				305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
			Q2092	305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
				305 134 5928	TR 2SA1037AK-T146-R
			Q3581	305 147 2218	TR 2SA1037AK-S-T146
				305 173 9618	TR 2SA1235A1E
				305 173 9717	TR 2SA1235A1F
				405 220 3115	TR ISA1235AC1E
				405 220 3016	TR ISA1235AC1F
			Q3582	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
			Q3601	305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
				305 002 8327	TR 2SA1203-Y-TE12L
				305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
			Q3801	305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q4001	305 191 5814	TR 3LN01C-TB-E
				305 166 3210	TR RN1113-TE85L
				305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 173 9618	TR 2SA1235A1E
			Q4012	305 173 9717	TR 2SA1235A1F
				405 220 3115	TR ISA1235AC1E
				405 220 3016	TR ISA1235AC1F
				305 166 3210	TR RN1113-TE85L
				305 217 4913	TR RN1111 TE85L
			Q5031	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
Q5032	305 173 9915	TR 2SC3928A1S	Q5302	305 015 8727	TR 2SC2812-L6-TB
	305 014 4512	TR 2SC2412K T146 R		305 015 8925	TR 2SC2812-L7-TB
	305 014 4611	TR 2SC2412K T146 S		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8727	TR 2SC2812-L6-TB		305 173 9816	TR 2SC3928A1R
	305 015 8925	TR 2SC2812-L7-TB		305 173 9915	TR 2SC3928A1S
Q5041	305 163 1615	TR 2SC2812N-L6-TB0	Q5303	305 134 5928	TR 2SA1037AK-T146-R
	305 173 9816	TR 2SC3928A1R		305 147 2218	TR 2SA1037AK-S-T146
	305 173 9915	TR 2SC3928A1S		305 173 9618	TR 2SA1235A1E
	305 014 4512	TR 2SC2412K T146 R		305 173 9717	TR 2SA1235A1F
	305 014 4611	TR 2SC2412K T146 S	Q5304	405 220 3115	TR ISA1235AC1E
Q5042	305 015 8727	TR 2SC2812-L6-TB		405 220 3016	TR ISA1235AC1F
	305 015 8925	TR 2SC2812-L7-TB		305 134 5928	TR 2SA1037AK-T146-R
	305 163 1615	TR 2SC2812N-L6-TB0		305 147 2218	TR 2SA1037AK-S-T146
	305 173 9816	TR 2SC3928A1R		305 173 9618	TR 2SA1235A1E
Q5061	305 173 9915	TR 2SC3928A1S	Q5331	305 173 9717	TR 2SA1235A1F
	305 014 4512	TR 2SC2412K T146 R		405 220 3115	TR ISA1235AC1E
	305 014 4611	TR 2SC2412K T146 S		405 220 3016	TR ISA1235AC1F
	305 015 8727	TR 2SC2812-L6-TB	Q5332	305 014 4512	TR 2SC2412K T146 R
	305 015 8925	TR 2SC2812-L7-TB		305 014 4611	TR 2SC2412K T146 S
Q5062	305 163 1615	TR 2SC2812N-L6-TB0		305 015 8727	TR 2SC2812-L6-TB
	305 173 9816	TR 2SC3928A1R		305 015 8925	TR 2SC2812-L7-TB
	305 173 9915	TR 2SC3928A1S		305 163 1615	TR 2SC2812N-L6-TB0
Q5063	305 014 4512	TR 2SC2412K T146 R	Q5333	305 173 9816	TR 2SC3928A1R
	305 014 4611	TR 2SC2412K T146 S		305 173 9915	TR 2SC3928A1S
	305 015 8727	TR 2SC2812-L6-TB		305 134 5928	TR 2SA1037AK-T146-R
	305 015 8925	TR 2SC2812-L7-TB		305 147 2218	TR 2SA1037AK-S-T146
	305 163 1615	TR 2SC2812N-L6-TB0	Q5334	305 173 9618	TR 2SA1235A1E
Q5064	305 173 9816	TR 2SC3928A1R		305 173 9717	TR 2SA1235A1F
	305 173 9915	TR 2SC3928A1S		405 220 3115	TR ISA1235AC1E
	305 014 4512	TR 2SC2412K T146 R		405 220 3016	TR ISA1235AC1F
	305 014 4611	TR 2SC2412K T146 S	Q5336	305 134 5928	TR 2SA1037AK-T146-R
Q5201	305 015 8727	TR 2SC2812-L6-TB		305 147 2218	TR 2SA1037AK-S-T146
	305 015 8925	TR 2SC2812-L7-TB		305 173 9618	TR 2SA1235A1E
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9717	TR 2SA1235A1F
	305 173 9816	TR 2SC3928A1R	Q5651	405 220 3115	TR ISA1235AC1E
Q5202	305 173 9915	TR 2SC3928A1S		405 220 3016	TR ISA1235AC1F
	305 014 4512	TR 2SC2412K T146 R		305 217 8515	TR RSQ025P03-TR
	305 014 4611	TR 2SC2412K T146 S	Q5701	305 217 5019	TR RN1117 TE85L
	305 015 8727	TR 2SC2812-L6-TB		305 217 5019	TR RN1117 TE85L
Q5281	305 015 8925	TR 2SC2812-L7-TB		305 014 4512	TR 2SC2412K T146 R
	305 163 1615	TR 2SC2812N-L6-TB0		305 014 4611	TR 2SC2412K T146 S
	305 173 9816	TR 2SC3928A1R	Q6201	305 015 8727	TR 2SC2812-L6-TB
	305 173 9915	TR 2SC3928A1S		305 015 8925	TR 2SC2812-L7-TB
Q5282	305 217 4913	TR RN1111 TE85L		305 163 1615	TR 2SC2812N-L6-TB0
	305 217 5217	TR RN1110 TE85L	Q6211	305 173 9816	TR 2SC3928A1R
	305 217 5217	TR RN1110 TE85L		305 173 9915	TR 2SC3928A1S
	305 217 4913	TR RN1111 TE85L		305 014 4512	TR 2SC2412K T146 R
	305 217 4913	TR RN1111 TE85L		305 014 4611	TR 2SC2412K T146 S
Q5286	305 217 4913	TR RN1111 TE85L	Q6201	305 015 8727	TR 2SC2812-L6-TB
Q5287	305 217 4913	TR RN1111 TE85L		305 015 8925	TR 2SC2812-L7-TB
Q5288	305 166 3210	TR RN1113-TE85L		305 163 1615	TR 2SC2812N-L6-TB0
Q5301	305 014 4512	TR 2SC2412K T146 R		305 173 9816	TR 2SC3928A1R
	305 014 4611	TR 2SC2412K T146 S		305 173 9915	TR 2SC3928A1S

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
Q683	305 047 9010	TR 2SB1204-S-TL		305 173 9915	TR 2SC3928A1S
Q684	305 014 4512	TR 2SC2412K T146 R	Q8702	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
Q6841	305 014 4512	TR 2SC2412K T146 R	Q8751	305 134 5928	TR 2SA1037AK-T146-R
	305 014 4611	TR 2SC2412K T146 S		305 147 2218	TR 2SA1037AK-S-T146
	305 015 8727	TR 2SC2812-L6-TB		305 173 9618	TR 2SA1235A1E
	305 015 8925	TR 2SC2812-L7-TB		305 173 9717	TR 2SA1235A1F
	305 163 1615	TR 2SC2812N-L6-TB0		405 220 3115	TR ISA1235AC1E
	305 173 9816	TR 2SC3928A1R		405 220 3016	TR ISA1235AC1F
	305 173 9915	TR 2SC3928A1S	Q8752	305 014 4512	TR 2SC2412K T146 R
Q6842	305 014 4512	TR 2SC2412K T146 R		305 014 4611	TR 2SC2412K T146 S
	305 014 4611	TR 2SC2412K T146 S		305 015 8727	TR 2SC2812-L6-TB
	305 015 8727	TR 2SC2812-L6-TB		305 015 8925	TR 2SC2812-L7-TB
	305 015 8925	TR 2SC2812-L7-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9816	TR 2SC3928A1R
	305 173 9816	TR 2SC3928A1R		305 173 9915	TR 2SC3928A1S
	305 173 9915	TR 2SC3928A1S	Q8753	305 191 5814	TR 3LN01C-TB-E
Q6843	305 014 4512	TR 2SC2412K T146 R	Q8754	305 191 5814	TR 3LN01C-TB-E
	305 014 4611	TR 2SC2412K T146 S	Q8756	305 134 5928	TR 2SA1037AK-T146-R
	305 015 8727	TR 2SC2812-L6-TB		305 147 2218	TR 2SA1037AK-S-T146
	305 015 8925	TR 2SC2812-L7-TB		305 173 9618	TR 2SA1235A1E
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9717	TR 2SA1235A1F
	305 173 9816	TR 2SC3928A1R		405 220 3115	TR ISA1235AC1E
	305 173 9915	TR 2SC3928A1S		405 220 3016	TR ISA1235AC1F
Q6844	305 014 4512	TR 2SC2412K T146 R	Q8757	305 191 5814	TR 3LN01C-TB-E
	305 014 4611	TR 2SC2412K T146 S	Q8758	305 191 5814	TR 3LN01C-TB-E
	305 015 8727	TR 2SC2812-L6-TB	Q8759	305 191 5814	TR 3LN01C-TB-E
	305 015 8925	TR 2SC2812-L7-TB	Q9602	406 021 3301	TR XP162A12A6PR
	305 163 1615	TR 2SC2812N-L6-TB0	Q9641	305 217 8515	TR RSQ025P03-TR
	305 173 9816	TR 2SC3928A1R	Q9642	305 217 8515	TR RSQ025P03-TR
	305 173 9915	TR 2SC3928A1S	Q9643	405 219 1610	TR RTQ020N03-TR
Q6846	305 002 8327	TR 2SA1203-Y-TE12L	Q9644	305 191 5814	TR 3LN01C-TB-E
Q6847	305 014 4512	TR 2SC2412K T146 R	Q9881	305 191 5814	TR 3LN01C-TB-E
	305 014 4611	TR 2SC2412K T146 S	INTEGRATED CIRCUIT		
	305 015 8727	TR 2SC2812-L6-TB	IC1302	310 479 4004	IC TC7WBD125AFK
	305 015 8925	TR 2SC2812-L7-TB	IC1303	310 479 4004	IC TC7WBD125AFK
	305 163 1615	TR 2SC2812N-L6-TB0	IC1351	410 643 5100	IC PQ070XNB1ZPH
	305 173 9816	TR 2SC3928A1R	IC1361	410 643 5100	IC PQ070XNB1ZPH
	305 173 9915	TR 2SC3928A1S	IC1371	309 531 6229	IC FA7701V-TE1
Q7801	305 014 4512	TR 2SC2412K T146 R	IC1381	309 553 4712	IC PQ070XZ02ZP
	305 014 4611	TR 2SC2412K T146 S	IC1391	310 538 4907	IC 24LC64T-I/SNG
	305 015 8727	TR 2SC2812-L6-TB	IC1401	309 553 4712	IC PQ070XZ02ZP
	305 015 8925	TR 2SC2812-L7-TB	IC1411	410 642 7303	IC PQ015YZ01ZPH
	305 163 1615	TR 2SC2812N-L6-TB0	IC301	309 670 8419	IC PW190-10L
	305 173 9816	TR 2SC3928A1R	IC302	309 487 5727	IC TC7SZ125FU
	305 173 9915	TR 2SC3928A1S	IC303	309 487 5727	IC TC7SZ125FU
Q7841	305 014 4512	TR 2SC2412K T146 R	IC3501	309 431 4424	IC M62334FP-DF5Q
	305 014 4611	TR 2SC2412K T146 S	IC3801	309 652 0714	IC HIN202EIBNZ-T
	305 015 8727	TR 2SC2812-L6-TB		309 565 9613	IC SP232AEN-L
	305 015 8925	TR 2SC2812-L7-TB	IC4011	310 358 1506	IC TC74HC4053AFT (EL)
	305 163 1615	TR 2SC2812N-L6-TB0	IC402	309 487 5727	IC TC7SZ125FU
	305 173 9816	TR 2SC3928A1R	IC4021	310 348 7501	IC TC7WT241FU (TE12L)
	305 173 9915	TR 2SC3928A1S	IC4891	309 404 7213	IC TC7SET00FU- (TE85L)
Q7871	305 014 4512	TR 2SC2412K T146 R	IC5001	309 564 1519	IC NJW1141M
	305 014 4611	TR 2SC2412K T146 S	IC5041	310 405 9301	IC TDA7056AT/N2
	305 015 8727	TR 2SC2812-L6-TB	IC5201	309 530 7217	IC AN5870SB-E1V
	305 015 8925	TR 2SC2812-L7-TB	IC5301	309 484 2016	IC BA7078AF-E2
	305 163 1615	TR 2SC2812N-L6-TB0	IC5302	309 439 8919	IC TC7WH125FU
	305 173 9816	TR 2SC3928A1R	IC5621	410 643 5100	IC PQ070XNB1ZPH
	305 173 9915	TR 2SC3928A1S	IC5641	309 431 2311	IC BA12FP-E2
Q7891	305 217 5019	TR RN1117 TE85L	IC5642	309 531 6229	IC FA7701V-TE1
Q7892	305 217 5019	TR RN1117 TE85L	IC5701	309 461 7822	IC PQ20WZ11
Q8701	305 014 4512	TR 2SC2412K T146 R	IC6201	309 462 0327	IC 24LC21AT/SN
	305 014 4611	TR 2SC2412K T146 S	IC6202	310 517 6809	IC TC74LVX4053FT
	305 015 8727	TR 2SC2812-L6-TB	IC6211	309 462 0327	IC 24LC21AT/SN
	305 015 8925	TR 2SC2812-L7-TB	IC6212	310 517 6809	IC TC74LVX4053FT
	305 163 1615	TR 2SC2812N-L6-TB0	IC7201	410 631 4504	IC EP2C5F256C8N
	305 173 9816	TR 2SC3928A1R	IC7261	410 643 5100	IC PQ070XNB1ZPH

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
IC7271	410 643 5100	IC PQ070XNB1ZPH	C1546	303 276 1911	CERAMIC 22P J 50V
IC7281	309 439 8919	IC TC7WH125FU	C1547	303 276 1911	CERAMIC 22P J 50V
IC7282	309 439 8919	IC TC7WH125FU	C1548	303 276 1911	CERAMIC 22P J 50V
IC7801	309 461 7822	IC PQ20WZ11	C1549	303 276 1911	CERAMIC 22P J 50V
IC7821	309 461 7822	IC PQ20WZ11	C1551	303 276 1911	CERAMIC 22P J 50V
IC7841	309 461 7822	IC PQ20WZ11	C1552	303 276 1911	CERAMIC 22P J 50V
IC7861	309 461 7822	IC PQ20WZ11	C1553	303 276 1911	CERAMIC 22P J 50V
IC7871	309 461 7822	IC PQ20WZ11	C1554	303 276 1911	CERAMIC 22P J 50V
IC801	410 646 4902	IC S29GL064A90TFIR30-0830	C1556	303 276 1911	CERAMIC 22P J 50V
IC841	310 616 3402	IC PST413A300NR	C1557	303 276 1911	CERAMIC 22P J 50V
IC8701	410 636 2109	IC R5F21134FP-C849B	C1558	303 276 1911	CERAMIC 22P J 50V
IC8702	309 137 9010	IC TC4S81F-TE85R	C1559	303 276 1911	CERAMIC 22P J 50V
IC8703	309 155 7329	IC TC4S71F-TE85R	C1571	303 276 1911	CERAMIC 22P J 50V
IC8708	310 596 5205	IC S-1000C27-M5T1G	C1572	303 276 1911	CERAMIC 22P J 50V
IC8712	309 482 3817	IC NJM2360AM (TE2)	C1573	303 276 1911	CERAMIC 22P J 50V
IC891	310 337 0605	IC HD74LVC14T	C1574	303 276 1911	CERAMIC 22P J 50V
IC9603	309 074 9626	IC M51957BFP	C1576	303 276 1911	CERAMIC 22P J 50V
IC9882	309 464 1411	IC TC74ACT14FT	C1577	303 276 1911	CERAMIC 22P J 50V
CAPACITOR			C1578	303 276 1911	CERAMIC 22P J 50V
C1041	303 409 3426	CERAMIC 0.1U K 16V	C1579	303 276 1911	CERAMIC 22P J 50V
C1091	303 409 3426	CERAMIC 0.1U K 16V	C1581	303 276 1911	CERAMIC 22P J 50V
C1300	303 409 3426	CERAMIC 0.1U K 16V	C1582	303 276 1911	CERAMIC 22P J 50V
C1301	303 409 3426	CERAMIC 0.1U K 16V	C1583	303 276 1911	CERAMIC 22P J 50V
C1331	303 305 8515	CERAMIC 15P J 50V	C1584	303 276 1911	CERAMIC 22P J 50V
C1332	303 305 8515	CERAMIC 15P J 50V	C1586	303 276 1911	CERAMIC 22P J 50V
C1351	303 433 1112	CERAMIC 1U K 10V	C1587	303 276 1911	CERAMIC 22P J 50V
C1352	303 358 3215	CERAMIC 10U K 6.3V	C1588	303 276 1911	CERAMIC 22P J 50V
C1361	303 433 1112	CERAMIC 1U K 10V	C1589	303 276 1911	CERAMIC 22P J 50V
C1362	303 358 3215	CERAMIC 10U K 6.3V	C1871	303 433 1112	CERAMIC 1U K 10V
C1371	303 409 3426	CERAMIC 0.1U K 16V	C2002	303 409 3426	CERAMIC 0.1U K 16V
C1372	303 409 3426	CERAMIC 0.1U K 16V	C2003	303 376 6311	CERAMIC 0.47U K 10V
C1373	303 379 7315	CERAMIC 4700P K 50V	C2012	303 409 3426	CERAMIC 0.1U K 16V
C1376	303 433 1112	CERAMIC 1U K 10V	C2013	303 376 6311	CERAMIC 0.47U K 10V
C1377	303 394 9318	ELECT 220U M 6.3V	C2022	303 409 3426	CERAMIC 0.1U K 16V
C1378	303 387 5112	ELECT 220U M 6.3V	C2023	303 376 6311	CERAMIC 0.47U K 10V
	303 394 9318	ELECT 220U M 6.3V	C2071	303 409 3426	CERAMIC 0.1U K 16V
	303 387 5112	ELECT 220U M 6.3V	C2072	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C1379	303 409 3426	CERAMIC 0.1U K 16V	C2073	303 433 1112	CERAMIC 1U K 10V
C1381	303 306 6510	CERAMIC 8200P K 50V	C2076	303 433 1112	CERAMIC 1U K 10V
C1382	303 409 3426	CERAMIC 0.1U K 16V	C2082	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C1383	303 433 1112	CERAMIC 1U K 10V	C2091	303 433 1112	CERAMIC 1U K 10V
C1384	303 394 1312	ELECT 100U M 6.3V	C2092	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C1391	303 387 4917	ELECT 100U M 6.3V	C2093	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2504	303 409 3426	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V	C2505	303 397 6611	ELECT 10U M 25V
C1401	303 433 1112	CERAMIC 1U K 10V	C2506	303 387 6812	ELECT 10U M 25V
C1402	303 394 1312	ELECT 100U M 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C1403	303 387 4917	ELECT 100U M 6.3V		303 409 3426	CERAMIC 0.1U K 16V
	303 392 1215	ELECT 47U M 6.3V	C2508	303 396 9613	CERAMIC 1U K 25V
	303 387 5310	ELECT 47U M 6.3V	C2509	303 397 7618	CERAMIC 1U K 25V
C1411	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C1412	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C1413	303 394 1312	ELECT 100U M 6.3V	C2511	303 409 3426	CERAMIC 0.1U K 16V
C1511	303 387 4917	ELECT 100U M 6.3V	C2512	303 433 1112	CERAMIC 1U K 10V
	303 276 1911	CERAMIC 22P J 50V	C2513	303 409 3426	CERAMIC 0.1U K 16V
	303 276 1911	CERAMIC 22P J 50V	C2514	303 397 6611	ELECT 10U M 25V
C1513	303 276 1911	CERAMIC 22P J 50V	C2534	303 387 6812	ELECT 10U M 25V
C1514	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1516	303 276 1911	CERAMIC 22P J 50V		303 397 6611	ELECT 10U M 25V
C1517	303 276 1911	CERAMIC 22P J 50V	C2535	303 387 6812	ELECT 10U M 25V
C1518	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1519	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1521	303 276 1911	CERAMIC 22P J 50V	C2538	303 396 9613	CERAMIC 1U K 25V
C1522	303 276 1911	CERAMIC 22P J 50V	C2539	303 397 7618	CERAMIC 1U K 25V
C1523	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1524	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1526	303 276 1911	CERAMIC 22P J 50V	C2542	303 433 1112	CERAMIC 1U K 10V
C1527	303 276 1911	CERAMIC 22P J 50V	C2543	303 409 3426	CERAMIC 0.1U K 16V
C1528	303 276 1911	CERAMIC 22P J 50V	C2544	303 397 6611	ELECT 10U M 25V
C1529	303 276 1911	CERAMIC 22P J 50V		303 387 6812	ELECT 10U M 25V
C1541	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V
C1542	303 276 1911	CERAMIC 22P J 50V	C2565	303 397 6611	ELECT 10U M 25V
C1543	303 276 1911	CERAMIC 22P J 50V		303 387 6812	ELECT 10U M 25V
C1544	303 276 1911	CERAMIC 22P J 50V		303 409 3426	CERAMIC 0.1U K 16V

Electrical Parts List

Key. No.	Part No.	Description				Key. No.	Part No.	Description			
C2567	303 409 3426	CERAMIC	0.1U K	16V		C3531	303 409 3426	CERAMIC	0.1U K	16V	
C2568	303 396 9613	CERAMIC	1U K	25V		C3532	303 367 0410	CERAMIC	0.1U K	50V	
	303 397 7618	CERAMIC	1U K	25V		C3533	303 367 0410	CERAMIC	0.1U K	50V	
C2569	303 409 3426	CERAMIC	0.1U K	16V		C3534	303 409 3426	CERAMIC	0.1U K	16V	
C2571	303 409 3426	CERAMIC	0.1U K	16V		C3536	303 391 5115	ELECT	100U M	16V	
C2572	303 433 1112	CERAMIC	1U K	10V			303 296 9515	ELECT	100U M	16V	
C2573	303 409 3426	CERAMIC	0.1U K	16V		C3538	303 398 5415	ELECT	47U M	25V	
C2574	303 397 6611	ELECT	10U M	25V			303 387 7314	ELECT	47U M	25V	
	303 387 6812	ELECT	10U M	25V		C3539	303 396 9613	CERAMIC	1U K	25V	
C2891	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C2892	303 305 8812	CERAMIC	47P J	50V		C354	303 409 3426	CERAMIC	0.1U K	16V	
C301	303 409 3426	CERAMIC	0.1U K	16V		C355	303 409 3426	CERAMIC	0.1U K	16V	
C302	303 449 1212	POS-SOLID	47U M	6.3V		C356	303 409 3426	CERAMIC	0.1U K	16V	
C303	303 409 3426	CERAMIC	0.1U K	16V		C3560	303 398 5415	ELECT	47U M	25V	
C304	303 409 3426	CERAMIC	0.1U K	16V			303 387 7314	ELECT	47U M	25V	
C306	303 409 3426	CERAMIC	0.1U K	16V		C3561	303 409 3426	CERAMIC	0.1U K	16V	
C307	303 409 3426	CERAMIC	0.1U K	16V		C3562	303 367 0410	CERAMIC	0.1U K	50V	
C308	303 409 3426	CERAMIC	0.1U K	16V		C3563	303 367 0410	CERAMIC	0.1U K	50V	
C309	303 409 3426	CERAMIC	0.1U K	16V		C3564	303 409 3426	CERAMIC	0.1U K	16V	
C311	303 409 3426	CERAMIC	0.1U K	16V		C3566	303 391 5115	ELECT	100U M	16V	
C312	303 409 3426	CERAMIC	0.1U K	16V			303 296 9515	ELECT	100U M	16V	
C313	303 409 3426	CERAMIC	0.1U K	16V		C3568	303 398 5415	ELECT	47U M	25V	
C314	303 409 3426	CERAMIC	0.1U K	16V			303 387 7314	ELECT	47U M	25V	
C316	303 409 3426	CERAMIC	0.1U K	16V		C3569	303 396 9613	CERAMIC	1U K	25V	
C317	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C318	303 409 3426	CERAMIC	0.1U K	16V		C357	303 409 3426	CERAMIC	0.1U K	16V	
C319	303 409 3426	CERAMIC	0.1U K	16V		C358	303 409 3426	CERAMIC	0.1U K	16V	
C321	303 409 3426	CERAMIC	0.1U K	16V		C3581	303 394 1312	ELECT	100U M	6.3V	
C322	303 409 3426	CERAMIC	0.1U K	16V			303 387 4917	ELECT	100U M	6.3V	
C323	303 409 3426	CERAMIC	0.1U K	16V		C359	303 409 3426	CERAMIC	0.1U K	16V	
C324	303 409 3426	CERAMIC	0.1U K	16V		C361	303 433 1112	CERAMIC	1U K	10V	
C326	303 409 3426	CERAMIC	0.1U K	16V		C362	303 433 1112	CERAMIC	1U K	10V	
C327	303 409 3426	CERAMIC	0.1U K	16V		C3621	303 409 3426	CERAMIC	0.1U K	16V	
C328	303 409 3426	CERAMIC	0.1U K	16V		C3622	303 409 3426	CERAMIC	0.1U K	16V	
C329	303 409 3426	CERAMIC	0.1U K	16V		C3623	303 409 3426	CERAMIC	0.1U K	16V	
C331	303 409 3426	CERAMIC	0.1U K	16V		C3624	303 409 3426	CERAMIC	0.1U K	16V	
C332	303 409 3426	CERAMIC	0.1U K	16V		C3626	303 409 3426	CERAMIC	0.1U K	16V	
C333	303 409 3426	CERAMIC	0.1U K	16V		C363	303 433 1112	CERAMIC	1U K	10V	
C334	303 409 3426	CERAMIC	0.1U K	16V		C364	303 441 9810	CERAMIC	0.01U K	50V	
C335	303 409 3426	CERAMIC	0.1U K	16V		C365	303 442 0519	CERAMIC	0.068U K	16V	
C336	303 409 3426	CERAMIC	0.1U K	16V		C366	303 409 3426	CERAMIC	0.1U K	16V	
C337	303 409 3426	CERAMIC	0.1U K	16V		C367	303 409 3426	CERAMIC	0.1U K	16V	
C338	303 409 3426	CERAMIC	0.1U K	16V		C368	303 409 3426	CERAMIC	0.1U K	16V	
C339	303 409 3426	CERAMIC	0.1U K	16V		C369	303 409 3426	CERAMIC	0.1U K	16V	
C341	303 409 3426	CERAMIC	0.1U K	16V		C370	303 441 9810	CERAMIC	0.01U K	50V	
C342	303 409 3426	CERAMIC	0.1U K	16V		C371	303 409 3426	CERAMIC	0.1U K	16V	
C343	303 409 3426	CERAMIC	0.1U K	16V		C372	303 441 9810	CERAMIC	0.01U K	50V	
C344	303 409 3426	CERAMIC	0.1U K	16V		C374	303 442 0519	CERAMIC	0.068U K	16V	
C346	303 409 3426	CERAMIC	0.1U K	16V		C376	303 442 0519	CERAMIC	0.068U K	16V	
C347	303 409 3426	CERAMIC	0.1U K	16V		C377	303 409 3426	CERAMIC	0.1U K	16V	
C348	303 409 3426	CERAMIC	0.1U K	16V		C378	303 409 3426	CERAMIC	0.1U K	16V	
C349	303 409 3426	CERAMIC	0.1U K	16V		C379	303 409 3426	CERAMIC	0.1U K	16V	
C3500	303 398 5415	ELECT	47U M	25V		C3801	303 439 8412	CERAMIC	2.2U M	6.3V	
	303 387 7314	ELECT	47U M	25V		C3802	303 439 8412	CERAMIC	2.2U M	6.3V	
C3501	303 409 3426	CERAMIC	0.1U K	16V		C3803	303 439 8412	CERAMIC	2.2U M	6.3V	
C3502	303 367 0410	CERAMIC	0.1U K	50V		C3804	303 439 8412	CERAMIC	2.2U M	6.3V	
C3503	303 367 0410	CERAMIC	0.1U K	50V		C3806	303 433 1112	CERAMIC	1U K	10V	
C3504	303 409 3426	CERAMIC	0.1U K	16V		C381	303 409 3426	CERAMIC	0.1U K	16V	
C3506	303 391 5115	ELECT	100U M	16V		C382	303 442 0519	CERAMIC	0.068U K	16V	
	303 296 9515	ELECT	100U M	16V		C383	303 442 0519	CERAMIC	0.068U K	16V	
C3508	303 398 5415	ELECT	47U M	25V		C384	303 442 0519	CERAMIC	0.068U K	16V	
	303 387 7314	ELECT	47U M	25V		C386	303 409 3426	CERAMIC	0.1U K	16V	
C3509	303 396 9613	CERAMIC	1U K	25V		C387	303 409 3426	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V		C4001	303 382 7814	CERAMIC	2.2U K	10V	
C351	303 409 3426	CERAMIC	0.1U K	16V		C4002	303 409 3426	CERAMIC	0.1U K	16V	
C3511	303 409 3426	CERAMIC	0.1U K	16V		C4003	303 382 7814	CERAMIC	2.2U K	10V	
C3512	303 409 3426	CERAMIC	0.1U K	16V		C4004	303 409 3426	CERAMIC	0.1U K	16V	
C3513	303 409 3426	CERAMIC	0.1U K	16V		C4006	303 409 3426	CERAMIC	0.1U K	16V	
C3514	303 409 3426	CERAMIC	0.1U K	16V		C401	303 433 1112	CERAMIC	1U K	10V	
C352	303 409 3426	CERAMIC	0.1U K	16V		C4011	303 409 3426	CERAMIC	0.1U K	16V	
C353	303 409 3426	CERAMIC	0.1U K	16V		C4012	303 409 3426	CERAMIC	0.1U K	16V	
C3530	303 398 5415	ELECT	47U M	25V		C4013	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C405	303 358 3215	CERAMIC	10U K	6.3V	

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C406	303 433 1112	CERAMIC 1U K 10V	C5012	303 409 3426	CERAMIC 0.1U K 16V
C407	303 409 3426	CERAMIC 0.1U K 16V	C5013	303 433 1112	CERAMIC 1U K 10V
C408	303 409 3426	CERAMIC 0.1U K 16V	C5014	303 433 1112	CERAMIC 1U K 10V
C409	303 409 3426	CERAMIC 0.1U K 16V	C5016	303 283 5711	CERAMIC 2200P K 50V
C410	303 409 3426	CERAMIC 0.1U K 16V	C5017	303 409 3426	CERAMIC 0.1U K 16V
C411	303 409 3426	CERAMIC 0.1U K 16V	C5018	303 401 5715	CERAMIC 0.33U K 16V
C412	303 409 3426	CERAMIC 0.1U K 16V	C5019	303 433 1112	CERAMIC 1U K 10V
C413	303 441 9810	CERAMIC 0.01U K 50V	C502	303 409 3426	CERAMIC 0.1U K 16V
C414	303 409 3426	CERAMIC 0.1U K 16V	C5021	303 433 1112	CERAMIC 1U K 10V
C415	303 409 3426	CERAMIC 0.1U K 16V	C5022	303 433 1112	CERAMIC 1U K 10V
C417	303 409 3426	CERAMIC 0.1U K 16V	C5023	303 433 1112	CERAMIC 1U K 10V
C418	303 409 3426	CERAMIC 0.1U K 16V	C5024	303 379 6714	CERAMIC 10U K 16V
C419	303 409 3426	CERAMIC 0.1U K 16V	C503	303 409 3426	CERAMIC 0.1U K 16V
C420	303 394 1312	ELECT 100U M 6.3V	C5038	303 441 9810	CERAMIC 0.01U K 50V
	303 387 4917	ELECT 100U M 6.3V	C504	303 409 3426	CERAMIC 0.1U K 16V
C421	303 409 3426	CERAMIC 0.1U K 16V	C5041	303 397 8219	CERAMIC 2.2U K 25V
C422	303 409 3426	CERAMIC 0.1U K 16V	C5042	303 398 3817	ELECT 220U M 16V
C423	303 409 3426	CERAMIC 0.1U K 16V		403 457 1416	ELECT 220U M 16V
C424	303 409 3426	CERAMIC 0.1U K 16V	C5043	303 409 3426	CERAMIC 0.1U K 16V
C425	303 409 3426	CERAMIC 0.1U K 16V	C505	303 409 3426	CERAMIC 0.1U K 16V
C426	303 409 3426	CERAMIC 0.1U K 16V	C506	303 409 3426	CERAMIC 0.1U K 16V
C427	303 409 3426	CERAMIC 0.1U K 16V	C5061	303 391 5511	ELECT 10U M 16V
C428	303 409 3426	CERAMIC 0.1U K 16V		303 175 7212	ELECT 10U M 16V
C429	303 409 3426	CERAMIC 0.1U K 16V	C5069	303 391 5511	ELECT 10U M 16V
C431	303 409 3426	CERAMIC 0.1U K 16V		303 175 7212	ELECT 10U M 16V
C432	303 409 3426	CERAMIC 0.1U K 16V	C507	303 409 3426	CERAMIC 0.1U K 16V
C433	303 409 3426	CERAMIC 0.1U K 16V	C508	303 409 3426	CERAMIC 0.1U K 16V
C434	303 409 3426	CERAMIC 0.1U K 16V	C509	303 409 3426	CERAMIC 0.1U K 16V
C435	303 409 3426	CERAMIC 0.1U K 16V	C511	303 409 3426	CERAMIC 0.1U K 16V
C436	303 409 3426	CERAMIC 0.1U K 16V	C512	303 276 1317	CERAMIC 1000P K 50V
C437	303 409 3426	CERAMIC 0.1U K 16V	C513	303 409 3426	CERAMIC 0.1U K 16V
C438	303 409 3426	CERAMIC 0.1U K 16V	C514	303 409 3426	CERAMIC 0.1U K 16V
C439	303 409 3426	CERAMIC 0.1U K 16V	C515	303 409 3426	CERAMIC 0.1U K 16V
C440	303 409 3426	CERAMIC 0.1U K 16V	C516	303 409 3426	CERAMIC 0.1U K 16V
C441	303 394 1312	ELECT 100U M 6.3V	C517	303 409 3426	CERAMIC 0.1U K 16V
	303 387 4917	ELECT 100U M 6.3V	C518	303 409 3426	CERAMIC 0.1U K 16V
C442	303 409 3426	CERAMIC 0.1U K 16V	C519	303 409 3426	CERAMIC 0.1U K 16V
C443	303 409 3426	CERAMIC 0.1U K 16V	C5201	303 439 8412	CERAMIC 2.2U M 6.3V
C444	303 409 3426	CERAMIC 0.1U K 16V	C5202	303 439 8412	CERAMIC 2.2U M 6.3V
C445	303 409 3426	CERAMIC 0.1U K 16V	C5203	303 439 8412	CERAMIC 2.2U M 6.3V
C446	303 409 3426	CERAMIC 0.1U K 16V	C5204	303 439 8412	CERAMIC 2.2U M 6.3V
C447	303 409 3426	CERAMIC 0.1U K 16V	C5206	303 439 8412	CERAMIC 2.2U M 6.3V
C448	303 409 3426	CERAMIC 0.1U K 16V	C5207	303 439 8412	CERAMIC 2.2U M 6.3V
C449	303 409 3426	CERAMIC 0.1U K 16V	C5208	303 397 5713	ELECT 100U M 10V
C450	303 409 3426	CERAMIC 0.1U K 16V		303 387 5617	ELECT 100U M 10V
C451	303 409 3426	CERAMIC 0.1U K 16V	C5209	303 409 3426	CERAMIC 0.1U K 16V
C452	303 409 3426	CERAMIC 0.1U K 16V	C5211	303 409 3426	CERAMIC 0.1U K 16V
C453	303 409 3426	CERAMIC 0.1U K 16V	C5212	303 409 3426	CERAMIC 0.1U K 16V
C454	303 409 3426	CERAMIC 0.1U K 16V	C5213	303 409 3426	CERAMIC 0.1U K 16V
C455	303 409 3426	CERAMIC 0.1U K 16V	C5214	303 409 3426	CERAMIC 0.1U K 16V
C456	303 409 3426	CERAMIC 0.1U K 16V	C5216	303 409 3426	CERAMIC 0.1U K 16V
C457	303 409 3426	CERAMIC 0.1U K 16V	C5217	303 367 0410	CERAMIC 0.1U K 50V
C458	303 409 3426	CERAMIC 0.1U K 16V	C5218	303 391 5115	ELECT 100U M 16V
C459	303 409 3426	CERAMIC 0.1U K 16V		303 296 9515	ELECT 100U M 16V
C460	303 409 3426	CERAMIC 0.1U K 16V	C5219	303 367 0410	CERAMIC 0.1U K 50V
C461	303 409 3426	CERAMIC 0.1U K 16V	C5221	303 441 9810	CERAMIC 0.01U K 50V
C462	303 409 3426	CERAMIC 0.1U K 16V	C5222	303 409 3426	CERAMIC 0.1U K 16V
C463	303 409 3426	CERAMIC 0.1U K 16V	C5223	303 381 9918	ELECT 470U M 16V
C464	303 409 3426	CERAMIC 0.1U K 16V		303 407 3517	ELECT 470U M 16V
C465	303 409 3426	CERAMIC 0.1U K 16V		403 458 5017	ELECT 470U M 16V
C471	303 409 3426	CERAMIC 0.1U K 16V	C5224	303 441 9810	CERAMIC 0.01U K 50V
C4808	303 449 1212	POS-SOLID 47U M 6.3V	C5226	303 381 9918	ELECT 470U M 16V
C4891	303 409 3426	CERAMIC 0.1U K 16V		303 407 3517	ELECT 470U M 16V
C5001	303 409 3426	CERAMIC 0.1U K 16V		403 458 5017	ELECT 470U M 16V
C5002	303 441 9810	CERAMIC 0.01U K 50V	C5227	303 441 9810	CERAMIC 0.01U K 50V
C5003	303 441 9810	CERAMIC 0.01U K 50V	C5229	303 381 9918	ELECT 470U M 16V
C5004	303 409 3426	CERAMIC 0.1U K 16V		303 407 3517	ELECT 470U M 16V
C5006	303 409 3426	CERAMIC 0.1U K 16V		403 458 5017	ELECT 470U M 16V
C5007	303 441 9810	CERAMIC 0.01U K 50V	C5231	303 441 9810	CERAMIC 0.01U K 50V
C5008	303 441 9810	CERAMIC 0.01U K 50V	C5244	303 382 7814	CERAMIC 2.2U K 10V
C5009	303 409 3426	CERAMIC 0.1U K 16V	C526	303 397 6611	ELECT 10U M 25V
C501	303 433 1112	CERAMIC 1U K 10V		303 387 6812	ELECT 10U M 25V
C5011	303 283 5711	CERAMIC 2200P K 50V	C527	303 433 1112	CERAMIC 1U K 10V

Electrical Parts List

Key. No.	Part No.	Description				Key. No.	Part No.	Description			
C528	303 397 6611	ELECT	10U M	25V		C5621	303 433 1112	CERAMIC	1U K	10V	
	303 387 6812	ELECT	10U M	25V		C5622	303 358 3215	CERAMIC	10U K	6.3V	
C529	303 396 9613	CERAMIC	1U K	25V		C5623	303 409 3426	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V		C563	303 409 3426	CERAMIC	0.1U K	16V	
C5301	303 409 3426	CERAMIC	0.1U K	16V		C564	303 409 3426	CERAMIC	0.1U K	16V	
C5303	303 433 1112	CERAMIC	1U K	10V		C5641	303 367 0410	CERAMIC	0.1U K	50V	
C5304	303 433 1112	CERAMIC	1U K	10V		C5642	303 398 5415	ELECT	47U M	25V	
C5306	303 409 3426	CERAMIC	0.1U K	16V			303 387 7314	ELECT	47U M	25V	
C5307	303 439 8412	CERAMIC	2.2U M	6.3V		C5643	303 409 3426	CERAMIC	0.1U K	16V	
C5308	303 409 3426	CERAMIC	0.1U K	16V		C5644	303 409 3426	CERAMIC	0.1U K	16V	
C5309	303 376 6311	CERAMIC	0.47U K	10V		C5646	303 379 7315	CERAMIC	4700P K	50V	
C531	303 433 1112	CERAMIC	1U K	10V		C5648	303 433 1112	CERAMIC	1U K	10V	
C5311	303 376 6311	CERAMIC	0.47U K	10V		C5649	303 391 5115	ELECT	100U M	16V	
C5312	303 433 1112	CERAMIC	1U K	10V			303 296 9515	ELECT	100U M	16V	
C5313	303 439 8412	CERAMIC	2.2U M	6.3V		C565	303 409 3426	CERAMIC	0.1U K	16V	
C5314	303 433 1112	CERAMIC	1U K	10V		C5651	303 391 5115	ELECT	100U M	16V	
C5316	303 449 1212	POS-SOLID	47U M	6.3V			303 296 9515	ELECT	100U M	16V	
C5317	303 409 3426	CERAMIC	0.1U K	16V		C5652	303 409 3426	CERAMIC	0.1U K	16V	
C5318	303 294 6110	CERAMIC	100P J	50V		C566	303 409 3426	CERAMIC	0.1U K	16V	
C532	303 409 3426	CERAMIC	0.1U K	16V		C567	303 409 3426	CERAMIC	0.1U K	16V	
C5321	303 355 9913	CERAMIC	2.2U K	10V		C568	303 409 3426	CERAMIC	0.1U K	16V	
C533	303 409 3426	CERAMIC	0.1U K	16V		C569	303 409 3426	CERAMIC	0.1U K	16V	
C5332	303 433 1112	CERAMIC	1U K	10V		C5701	303 367 0410	CERAMIC	0.1U K	50V	
C5333	303 376 6311	CERAMIC	0.47U K	10V		C5702	303 398 5415	ELECT	47U M	25V	
C5334	303 320 0419	CERAMIC	68P J	50V			303 387 7314	ELECT	47U M	25V	
C5336	303 309 2519	CERAMIC	27P J	50V		C571	303 409 3426	CERAMIC	0.1U K	16V	
C5337	303 294 6110	CERAMIC	100P J	50V		C572	303 276 1317	CERAMIC	1000P K	50V	
C534	303 409 3426	CERAMIC	0.1U K	16V		C573	303 409 3426	CERAMIC	0.1U K	16V	
C5341	303 409 3426	CERAMIC	0.1U K	16V		C574	303 409 3426	CERAMIC	0.1U K	16V	
C535	303 409 3426	CERAMIC	0.1U K	16V		C575	303 409 3426	CERAMIC	0.1U K	16V	
C536	303 409 3426	CERAMIC	0.1U K	16V		C576	303 409 3426	CERAMIC	0.1U K	16V	
C537	303 409 3426	CERAMIC	0.1U K	16V		C577	303 409 3426	CERAMIC	0.1U K	16V	
C538	303 409 3426	CERAMIC	0.1U K	16V		C578	303 409 3426	CERAMIC	0.1U K	16V	
C539	303 409 3426	CERAMIC	0.1U K	16V		C579	303 409 3426	CERAMIC	0.1U K	16V	
C541	303 409 3426	CERAMIC	0.1U K	16V		C586	303 397 6611	ELECT	10U M	25V	
C542	303 276 1317	CERAMIC	1000P K	50V			303 387 6812	ELECT	10U M	25V	
C543	303 409 3426	CERAMIC	0.1U K	16V		C587	303 433 1112	CERAMIC	1U K	10V	
C544	303 409 3426	CERAMIC	0.1U K	16V		C588	303 397 6611	ELECT	10U M	25V	
C545	303 409 3426	CERAMIC	0.1U K	16V			303 387 6812	ELECT	10U M	25V	
C546	303 409 3426	CERAMIC	0.1U K	16V		C589	303 396 9613	CERAMIC	1U K	25V	
C547	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C548	303 409 3426	CERAMIC	0.1U K	16V		C6201	303 409 3426	CERAMIC	0.1U K	16V	
C549	303 409 3426	CERAMIC	0.1U K	16V		C6202	303 409 3426	CERAMIC	0.1U K	16V	
C556	303 397 6611	ELECT	10U M	25V		C6203	303 358 3215	CERAMIC	10U K	6.3V	
	303 387 6812	ELECT	10U M	25V		C6211	303 409 3426	CERAMIC	0.1U K	16V	
C557	303 433 1112	CERAMIC	1U K	10V		C6212	303 409 3426	CERAMIC	0.1U K	16V	
C558	303 397 6611	ELECT	10U M	25V		C6213	303 358 3215	CERAMIC	10U K	6.3V	
	303 387 6812	ELECT	10U M	25V		C687	303 394 9318	ELECT	220U M	6.3V	
C559	303 396 9613	CERAMIC	1U K	25V			303 387 5112	ELECT	220U M	6.3V	
	303 397 7618	CERAMIC	1U K	25V		C7201	303 409 3426	CERAMIC	0.1U K	16V	
C5601	303 397 5713	ELECT	100U M	10V		C7202	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 5617	ELECT	100U M	10V		C7203	303 409 3426	CERAMIC	0.1U K	16V	
C5602	303 409 3426	CERAMIC	0.1U K	16V		C7204	303 409 3426	CERAMIC	0.1U K	16V	
C5606	303 398 5415	ELECT	47U M	25V		C7206	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7207	303 409 3426	CERAMIC	0.1U K	16V	
C5607	303 398 5415	ELECT	47U M	25V		C7208	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7209	303 409 3426	CERAMIC	0.1U K	16V	
C5608	303 397 5713	ELECT	100U M	10V		C7211	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 5617	ELECT	100U M	10V		C7212	303 409 3426	CERAMIC	0.1U K	16V	
C5609	303 398 5415	ELECT	47U M	25V		C7213	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7214	303 409 3426	CERAMIC	0.1U K	16V	
C561	303 433 1112	CERAMIC	1U K	10V		C7216	303 409 3426	CERAMIC	0.1U K	16V	
C5611	303 398 5415	ELECT	47U M	25V		C7217	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7218	303 409 3426	CERAMIC	0.1U K	16V	
C5612	303 398 5415	ELECT	47U M	25V		C7219	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7221	303 409 3426	CERAMIC	0.1U K	16V	
C5613	303 398 5415	ELECT	47U M	25V		C7222	303 409 3426	CERAMIC	0.1U K	16V	
	303 387 7314	ELECT	47U M	25V		C7223	303 409 3426	CERAMIC	0.1U K	16V	
C5616	303 417 9912	CERAMIC	4.7U K	25V		C7224	303 409 3426	CERAMIC	0.1U K	16V	
C5617	303 417 9912	CERAMIC	4.7U K	25V		C7226	303 409 3426	CERAMIC	0.1U K	16V	
C5618	303 417 9912	CERAMIC	4.7U K	25V		C7227	303 409 3426	CERAMIC	0.1U K	16V	
C5619	303 433 1112	CERAMIC	1U K	10V		C7228	303 409 3426	CERAMIC	0.1U K	16V	
C562	303 409 3426	CERAMIC	0.1U K	16V		C7229	303 409 3426	CERAMIC	0.1U K	16V	

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C7261	303 433 1112	CERAMIC 1U K 10V	C891	303 409 3426	CERAMIC 0.1U K 16V
C7262	303 358 3215	CERAMIC 10U K 6.3V	C9603	303 433 1112	CERAMIC 1U K 10V
C7264	303 391 5313	ELECT 47U M 6.3V	C9604	303 442 0519	CERAMIC 0.068U K 16V
	303 184 8019	ELECT 47U M 6.3V	C9641	303 409 3426	CERAMIC 0.1U K 16V
C7266	303 409 3426	CERAMIC 0.1U K 16V	C9642	303 409 3426	CERAMIC 0.1U K 16V
C7271	303 433 1112	CERAMIC 1U K 10V	C9643	303 409 3426	CERAMIC 0.1U K 16V
C7272	303 358 3215	CERAMIC 10U K 6.3V	C9644	303 409 3426	CERAMIC 0.1U K 16V
C7273	303 409 3426	CERAMIC 0.1U K 16V	C9646	303 437 4614	CERAMIC 10U K 25V
C7274	303 409 3426	CERAMIC 0.1U K 16V	C9647	303 437 4614	CERAMIC 10U K 25V
C7281	303 409 3426	CERAMIC 0.1U K 16V	C9882	303 409 3426	CERAMIC 0.1U K 16V
C7282	303 409 3426	CERAMIC 0.1U K 16V	RESISTOR		
C7801	303 398 5415	ELECT 47U M 25V	R1001	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 387 7314	ELECT 47U M 25V	R1002	301 224 8814	MT-GLAZE 100 JA 1/16W
C7802	303 409 3426	CERAMIC 0.1U K 16V	R1011	301 260 4115	MT-GLAZE 75 JA 1/3W
C7803	303 409 3426	CERAMIC 0.1U K 16V	R1012	301 224 8814	MT-GLAZE 100 JA 1/16W
C7804	303 391 5115	ELECT 100U M 16V	R1021	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 296 9515	ELECT 100U M 16V	R1022	301 224 8814	MT-GLAZE 100 JA 1/16W
C7806	303 409 3426	CERAMIC 0.1U K 16V	R1031	301 225 1418	MT-GLAZE 47K JA 1/16W
C7821	303 398 5415	ELECT 47U M 25V	R1034	301 224 9316	MT-GLAZE 1K JA 1/16W
	303 387 7314	ELECT 47U M 25V	R1038	301 224 8814	MT-GLAZE 100 JA 1/16W
C7822	303 409 3426	CERAMIC 0.1U K 16V	R1041	301 225 1418	MT-GLAZE 47K JA 1/16W
C7823	303 409 3426	CERAMIC 0.1U K 16V	R1048	301 224 8814	MT-GLAZE 100 JA 1/16W
C7824	303 391 5115	ELECT 100U M 16V	R1051	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 296 9515	ELECT 100U M 16V	R1052	301 263 7420	MT-GLAZE 75 JA 1/16W
C7841	303 398 5415	ELECT 47U M 25V	R1053	301 225 7915	MT-GLAZE 220 JA 1/16W
	303 387 7314	ELECT 47U M 25V	R1054	301 224 9316	MT-GLAZE 1K JA 1/16W
C7842	303 409 3426	CERAMIC 0.1U K 16V	R1061	301 260 4115	MT-GLAZE 75 JA 1/3W
C7843	303 409 3426	CERAMIC 0.1U K 16V	R1062	301 263 7420	MT-GLAZE 75 JA 1/16W
C7844	303 391 5115	ELECT 100U M 16V	R1063	301 225 7915	MT-GLAZE 220 JA 1/16W
	303 296 9515	ELECT 100U M 16V	R1064	301 224 9316	MT-GLAZE 1K JA 1/16W
C7846	303 409 3426	CERAMIC 0.1U K 16V	R1071	301 260 4115	MT-GLAZE 75 JA 1/3W
C7861	303 398 5415	ELECT 47U M 25V	R1072	301 263 7420	MT-GLAZE 75 JA 1/16W
	303 387 7314	ELECT 47U M 25V	R1073	301 225 7915	MT-GLAZE 220 JA 1/16W
C7862	303 409 3426	CERAMIC 0.1U K 16V	R1074	301 224 9316	MT-GLAZE 1K JA 1/16W
C7863	303 409 3426	CERAMIC 0.1U K 16V	R1081	301 225 1418	MT-GLAZE 47K JA 1/16W
C7864	303 391 5115	ELECT 100U M 16V	R1082	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	303 296 9515	ELECT 100U M 16V	R1084	301 224 9316	MT-GLAZE 1K JA 1/16W
C7871	303 398 5415	ELECT 47U M 25V	R1091	301 225 1418	MT-GLAZE 47K JA 1/16W
	303 387 7314	ELECT 47U M 25V	R1092	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C7872	303 409 3426	CERAMIC 0.1U K 16V	R1101	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C7873	303 409 3426	CERAMIC 0.1U K 16V	R1102	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C7874	303 391 5115	ELECT 100U M 16V	R1111	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	303 296 9515	ELECT 100U M 16V	R1112	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C7876	303 409 3426	CERAMIC 0.1U K 16V	R1307	301 225 1210	MT-GLAZE 4.7K JA 1/16W
C801	303 409 3426	CERAMIC 0.1U K 16V	R1308	301 225 1210	MT-GLAZE 4.7K JA 1/16W
C841	303 433 1112	CERAMIC 1U K 10V	R1309	301 225 1210	MT-GLAZE 4.7K JA 1/16W
C842	303 392 1215	ELECT 47U M 6.3V	R1311	301 225 1210	MT-GLAZE 4.7K JA 1/16W
	303 387 5310	ELECT 47U M 6.3V	R1331	301 224 9415	MT-GLAZE 1M JA 1/16W
C843	303 441 9810	CERAMIC 0.01U K 50V	R1351	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
C844	303 276 1317	CERAMIC 1000P K 50V	R1352	301 224 9019	MT-GLAZE 10K JA 1/16W
C8700	303 396 9613	CERAMIC 1U K 25V	R1353	301 294 4419	MT-GLAZE 1.8K FA 1/16W
	303 397 7618	CERAMIC 1U K 25V	R1354	301 302 5414	MT-GLAZE 220 FA 1/16W
C8701	303 409 3426	CERAMIC 0.1U K 16V	R1356	301 294 3115	MT-GLAZE 1K FA 1/16W
C8702	303 433 1112	CERAMIC 1U K 10V	R1361	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
C8703	303 409 3426	CERAMIC 0.1U K 16V	R1362	301 224 9019	MT-GLAZE 10K JA 1/16W
C8704	303 409 3426	CERAMIC 0.1U K 16V	R1363	301 338 8113	MT-GLAZE 1.2K FA 1/16W
C8705	303 398 4111	ELECT 47U M 16V	R1364	301 272 7814	MT-GLAZE 100 FA 1/16W
	303 387 6515	ELECT 47U M 16V	R1366	301 294 3115	MT-GLAZE 1K FA 1/16W
C8706	303 305 9918	CERAMIC 680P J 25V	R1371	301 259 2313	MT-GLAZE 200K JA 1/16W
C8707	303 381 5316	ELECT 100U M 16V	R1372	301 225 2118	MT-GLAZE 12K JA 1/16W
	303 369 3211	ELECT 100U M 16V	R1373	301 224 9019	MT-GLAZE 10K JA 1/16W
	403 458 7615	ELECT 100U M 16V	R1374	301 225 0213	MT-GLAZE 3.3K JA 1/16W
C8708	303 381 5316	ELECT 100U M 16V	R1376	301 261 1113	MT-GLAZE 24K JA 1/16W
	303 369 3211	ELECT 100U M 16V	R1377	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	403 458 7615	ELECT 100U M 16V	R1378	301 302 3410	MT-GLAZE 13K JA 1/16W
C8811	303 276 3113	CERAMIC 33P J 50V	R1379	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
C8812	303 276 3113	CERAMIC 33P J 50V	R1381	301 224 9019	MT-GLAZE 10K JA 1/16W
C8813	303 409 3426	CERAMIC 0.1U K 16V	R1382	301 299 4919	MT-GLAZE 470 FA 1/16W
C8821	303 276 3113	CERAMIC 33P J 50V	R1383	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C8822	303 276 3113	CERAMIC 33P J 50V	R1384	301 294 3115	MT-GLAZE 1K FA 1/16W
C8823	303 409 3426	CERAMIC 0.1U K 16V	R1401	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
C8842	303 276 3113	CERAMIC 33P J 50V	R1402	301 224 9019	MT-GLAZE 10K JA 1/16W
C8843	303 276 3113	CERAMIC 33P J 50V	R1404	301 338 6713	MT-GLAZE 1.6K FA 1/16W

Electrical Parts List

Key. No.	Part No.	Description		Key. No.	Part No.	Description	
R1406	301 294 3115	MT-GLAZE	1K FA 1/16W	R303	301 224 9316	MT-GLAZE	1K JA 1/16W
R1407	301 225 1814	MT-GLAZE	47 JA 1/16W	R304	301 224 9316	MT-GLAZE	1K JA 1/16W
R1411	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R306	301 339 9614	MT-GLAZE	23.2K FA 1/10W
R1412	301 224 8814	MT-GLAZE	100 JA 1/16W	R307	301 224 9712	MT-GLAZE	22 JA 1/16W
R1413	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R308	301 224 9712	MT-GLAZE	22 JA 1/16W
R1414	301 225 8110	MT-GLAZE	10 JA 1/16W	R309	301 224 9316	MT-GLAZE	1K JA 1/16W
R1416	301 294 3115	MT-GLAZE	1K FA 1/16W	R311	301 224 9316	MT-GLAZE	1K JA 1/16W
R1801	301 224 8814	MT-GLAZE	100 JA 1/16W	R312	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1804	301 224 8814	MT-GLAZE	100 JA 1/16W	R313	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1808	301 259 7823	MT-GLAZE	20K JA 1/16W	R314	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1809	301 224 9019	MT-GLAZE	10K JA 1/16W	R316	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1811	301 224 9019	MT-GLAZE	10K JA 1/16W	R318	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1871	301 224 9415	MT-GLAZE	1M JA 1/16W	R319	301 224 9019	MT-GLAZE	10K JA 1/16W
R2000	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R321	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2002	301 225 1418	MT-GLAZE	47K JA 1/16W	R322	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2003	301 225 0718	MT-GLAZE	56K JA 1/16W	R324	301 225 0817	MT-GLAZE	68K JA 1/16W
R2004	301 225 1319	MT-GLAZE	470 JA 1/16W	R325	301 224 9019	MT-GLAZE	10K JA 1/16W
R2006	301 224 9316	MT-GLAZE	1K JA 1/16W	R327	301 224 9019	MT-GLAZE	10K JA 1/16W
R2007	301 224 8814	MT-GLAZE	100 JA 1/16W	R331	301 224 9712	MT-GLAZE	22 JA 1/16W
R2008	301 225 0015	MT-GLAZE	270 JA 1/16W	R332	301 224 9712	MT-GLAZE	22 JA 1/16W
R2012	301 225 1418	MT-GLAZE	47K JA 1/16W	R334	301 224 9712	MT-GLAZE	22 JA 1/16W
R2013	301 225 0718	MT-GLAZE	56K JA 1/16W	R336	301 224 9712	MT-GLAZE	22 JA 1/16W
R2014	301 225 1319	MT-GLAZE	470 JA 1/16W	R337	301 224 9712	MT-GLAZE	22 JA 1/16W
R2016	301 224 9316	MT-GLAZE	1K JA 1/16W	R338	301 224 9712	MT-GLAZE	22 JA 1/16W
R2017	301 224 8814	MT-GLAZE	100 JA 1/16W	R339	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2022	301 225 1418	MT-GLAZE	47K JA 1/16W	R340	301 224 8814	MT-GLAZE	100 JA 1/16W
R2023	301 225 0718	MT-GLAZE	56K JA 1/16W	R341	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2024	301 225 1319	MT-GLAZE	470 JA 1/16W	R342	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2026	301 224 9316	MT-GLAZE	1K JA 1/16W	R343	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2027	301 224 8814	MT-GLAZE	100 JA 1/16W	R344	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2028	301 225 0015	MT-GLAZE	270 JA 1/16W	R347	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2032	301 224 9019	MT-GLAZE	10K JA 1/16W	R348	301 225 8110	MT-GLAZE	10 JA 1/16W
R2033	301 224 9217	MT-GLAZE	15K JA 1/16W	R349	301 224 9712	MT-GLAZE	22 JA 1/16W
R2039	301 225 8110	MT-GLAZE	10 JA 1/16W	R3501	301 224 8913	MT-GLAZE	100K JA 1/16W
R2041	301 225 8110	MT-GLAZE	10 JA 1/16W	R3502	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2042	301 225 8110	MT-GLAZE	10 JA 1/16W	R3503	301 225 1418	MT-GLAZE	47K JA 1/16W
R2043	301 225 8110	MT-GLAZE	10 JA 1/16W	R3509	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R2044	301 225 8110	MT-GLAZE	10 JA 1/16W	R351	301 225 8110	MT-GLAZE	10 JA 1/16W
R2071	301 224 8913	MT-GLAZE	100K JA 1/16W	R3511	301 224 8814	MT-GLAZE	100 JA 1/16W
R2072	301 224 8913	MT-GLAZE	100K JA 1/16W	R3512	301 224 8814	MT-GLAZE	100 JA 1/16W
R2073	301 224 9415	MT-GLAZE	1M JA 1/16W	R3513	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2074	301 224 9910	MT-GLAZE	22K JA 1/16W	R3514	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2076	301 260 4115	MT-GLAZE	75 JA 1/3W	R3515	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2077	301 225 1814	MT-GLAZE	47 JA 1/16W	R352	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2078	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R353	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2079	301 263 7420	MT-GLAZE	75 JA 1/16W	R3531	301 224 8913	MT-GLAZE	100K JA 1/16W
R2081	301 260 4115	MT-GLAZE	75 JA 1/3W	R3532	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2082	301 225 1814	MT-GLAZE	47 JA 1/16W	R3533	301 225 1418	MT-GLAZE	47K JA 1/16W
R2083	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3539	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R2084	301 263 7420	MT-GLAZE	75 JA 1/16W	R355	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2091	301 260 4115	MT-GLAZE	75 JA 1/3W	R356	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2092	301 225 1814	MT-GLAZE	47 JA 1/16W	R3561	301 224 8913	MT-GLAZE	100K JA 1/16W
R2093	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3562	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2094	301 263 7420	MT-GLAZE	75 JA 1/16W	R3563	301 225 1418	MT-GLAZE	47K JA 1/16W
R2097	301 224 9316	MT-GLAZE	1K JA 1/16W	R3569	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R2098	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R357	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2501	301 224 8814	MT-GLAZE	100 JA 1/16W	R3581	301 224 9316	MT-GLAZE	1K JA 1/16W
R2502	301 224 8814	MT-GLAZE	100 JA 1/16W	R3582	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R2503	301 224 8814	MT-GLAZE	100 JA 1/16W	R3583	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R2521	301 224 8913	MT-GLAZE	100K JA 1/16W	R3584	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R2531	301 224 8814	MT-GLAZE	100 JA 1/16W	R3601	301 225 8516	MT-GLAZE	1.8K JA 1/16W
R2532	301 224 8814	MT-GLAZE	100 JA 1/16W	R3602	301 225 0619	MT-GLAZE	5.6K JA 1/16W
R2533	301 224 8814	MT-GLAZE	100 JA 1/16W	R361	301 302 3410	MT-GLAZE	13K JA 1/16W
R2551	301 224 8913	MT-GLAZE	100K JA 1/16W	R362	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2561	301 224 8814	MT-GLAZE	100 JA 1/16W	R3621	301 224 9019	MT-GLAZE	10K JA 1/16W
R2562	301 224 8814	MT-GLAZE	100 JA 1/16W	R3622	301 224 9019	MT-GLAZE	10K JA 1/16W
R2563	301 224 8814	MT-GLAZE	100 JA 1/16W	R3623	301 224 9019	MT-GLAZE	10K JA 1/16W
R2581	301 224 8913	MT-GLAZE	100K JA 1/16W	R3624	301 224 9019	MT-GLAZE	10K JA 1/16W
R2890	301 224 9712	MT-GLAZE	22 JA 1/16W	R3626	301 224 9019	MT-GLAZE	10K JA 1/16W
R2891	301 224 9712	MT-GLAZE	22 JA 1/16W	R363	301 224 9316	MT-GLAZE	1K JA 1/16W
R2892	301 224 8814	MT-GLAZE	100 JA 1/16W	R364	301 224 9316	MT-GLAZE	1K JA 1/16W
R300	301 224 9019	MT-GLAZE	10K JA 1/16W	R366	301 224 9316	MT-GLAZE	1K JA 1/16W
R302	301 227 5612	MT-GLAZE	8.2K JA 1/16W	R367	301 226 1516	MT-GLAZE	0.000 ZA 1/16W

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R368	301 263 7420	MT-GLAZE 75 JA 1/16W	R5001	301 276 4314	MT-GLAZE 4.7 JA 1/3W
R369	301 263 7420	MT-GLAZE 75 JA 1/16W	R5002	301 225 8110	MT-GLAZE 10 JA 1/16W
R372	301 225 8110	MT-GLAZE 10 JA 1/16W	R5003	301 225 8110	MT-GLAZE 10 JA 1/16W
R373	301 225 8110	MT-GLAZE 10 JA 1/16W	R501	301 224 9316	MT-GLAZE 1K JA 1/16W
R378	301 224 9019	MT-GLAZE 10K JA 1/16W	R502	301 225 8110	MT-GLAZE 10 JA 1/16W
R3801	301 225 8110	MT-GLAZE 10 JA 1/16W	R503	301 224 9019	MT-GLAZE 10K JA 1/16W
R3802	301 225 8110	MT-GLAZE 10 JA 1/16W	R5031	301 225 1319	MT-GLAZE 470 JA 1/16W
R3803	301 225 8110	MT-GLAZE 10 JA 1/16W	R5032	301 225 1319	MT-GLAZE 470 JA 1/16W
R3806	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5033	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R382	301 263 7420	MT-GLAZE 75 JA 1/16W	R5034	301 224 9316	MT-GLAZE 1K JA 1/16W
R389	301 225 0817	MT-GLAZE 68K JA 1/16W	R5036	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R391	301 224 9019	MT-GLAZE 10K JA 1/16W	R5037	301 224 9316	MT-GLAZE 1K JA 1/16W
R392	301 225 8011	MT-GLAZE 330 JA 1/16W	R5038	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R393	301 224 9019	MT-GLAZE 10K JA 1/16W	R5043	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R394	301 225 2019	MT-GLAZE 680 JA 1/16W	R5044	301 225 8615	MT-GLAZE 560K JA 1/16W
R4001	301 224 9019	MT-GLAZE 10K JA 1/16W	R5046	301 234 9917	MT-GLAZE 6.8K JA 1/16W
R401	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5047	301 225 0510	MT-GLAZE 33K JA 1/16W
R4011	301 224 9316	MT-GLAZE 1K JA 1/16W	R5048	301 259 7922	MT-GLAZE 5.1K JA 1/16W
R4012	301 224 9316	MT-GLAZE 1K JA 1/16W	R5049	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R4013	301 224 9514	MT-GLAZE 2.2K JA 1/16W	R5051	301 224 9019	MT-GLAZE 10K JA 1/16W
R4014	301 224 9019	MT-GLAZE 10K JA 1/16W	R5052	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R4016	301 224 9514	MT-GLAZE 2.2K JA 1/16W	R5053	301 224 9019	MT-GLAZE 10K JA 1/16W
R4017	301 224 9514	MT-GLAZE 2.2K JA 1/16W	R5061	301 224 9316	MT-GLAZE 1K JA 1/16W
R4018	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5062	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R402	301 224 8814	MT-GLAZE 100 JA 1/16W	R5063	301 224 9316	MT-GLAZE 1K JA 1/16W
R4021	301 224 8814	MT-GLAZE 100 JA 1/16W	R5064	301 224 9316	MT-GLAZE 1K JA 1/16W
R4022	301 224 9316	MT-GLAZE 1K JA 1/16W	R5066	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R403	301 224 8814	MT-GLAZE 100 JA 1/16W	R5067	301 224 9316	MT-GLAZE 1K JA 1/16W
R404	301 224 8814	MT-GLAZE 100 JA 1/16W	R5068	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R405	301 263 7420	MT-GLAZE 75 JA 1/16W	R5069	301 224 9316	MT-GLAZE 1K JA 1/16W
R406	301 263 7420	MT-GLAZE 75 JA 1/16W	R5071	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R407	301 263 7420	MT-GLAZE 75 JA 1/16W	R511	301 224 8814	MT-GLAZE 100 JA 1/16W
R409	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R512	301 224 8814	MT-GLAZE 100 JA 1/16W
R411	301 224 9712	MT-GLAZE 22 JA 1/16W	R513	301 224 8814	MT-GLAZE 100 JA 1/16W
R412	301 224 9712	MT-GLAZE 22 JA 1/16W	R5201	301 225 8110	MT-GLAZE 10 JA 1/16W
R413	301 224 9712	MT-GLAZE 22 JA 1/16W	R5202	301 225 8110	MT-GLAZE 10 JA 1/16W
R414	301 224 9712	MT-GLAZE 22 JA 1/16W	R5203	301 225 8110	MT-GLAZE 10 JA 1/16W
R415	301 224 9712	MT-GLAZE 22 JA 1/16W	R5204	301 225 8110	MT-GLAZE 10 JA 1/16W
R416	301 224 9712	MT-GLAZE 22 JA 1/16W	R5206	301 225 8110	MT-GLAZE 10 JA 1/16W
R419	401 344 1914	MT-GLAZE 10K DA 1/16W	R5207	301 225 8110	MT-GLAZE 10 JA 1/16W
R420	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5208	301 224 8814	MT-GLAZE 100 JA 1/16W
R427	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5209	301 224 8814	MT-GLAZE 100 JA 1/16W
R434	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R521	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R435	301 225 1814	MT-GLAZE 47 JA 1/16W	R5211	301 224 8814	MT-GLAZE 100 JA 1/16W
R436	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5212	301 224 8814	MT-GLAZE 100 JA 1/16W
R437	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5213	301 225 1814	MT-GLAZE 47 JA 1/16W
R438	301 225 1814	MT-GLAZE 47 JA 1/16W	R5215	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R439	301 225 1814	MT-GLAZE 47 JA 1/16W	R522	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R440	301 225 1814	MT-GLAZE 47 JA 1/16W	R5221	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R441	301 225 1814	MT-GLAZE 47 JA 1/16W	R5222	301 036 9610	MT-GLAZE 56 JA 1/8W
R444	301 225 1814	MT-GLAZE 47 JA 1/16W	R5226	301 224 9316	MT-GLAZE 1K JA 1/16W
R447	301 225 1814	MT-GLAZE 47 JA 1/16W	R5227	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R449	301 225 1814	MT-GLAZE 47 JA 1/16W	R5228	301 036 9610	MT-GLAZE 56 JA 1/8W
R450	301 225 1814	MT-GLAZE 47 JA 1/16W	R5233	301 224 9316	MT-GLAZE 1K JA 1/16W
R453	301 225 1814	MT-GLAZE 47 JA 1/16W	R5234	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R454	301 225 1814	MT-GLAZE 47 JA 1/16W	R5237	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R457	301 225 1814	MT-GLAZE 47 JA 1/16W	R5238	301 036 9610	MT-GLAZE 56 JA 1/8W
R461	301 225 1814	MT-GLAZE 47 JA 1/16W	R524	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R462	301 225 1814	MT-GLAZE 47 JA 1/16W	R526	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R463	301 225 1814	MT-GLAZE 47 JA 1/16W	R5282	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R464	301 225 1814	MT-GLAZE 47 JA 1/16W	R5289	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R469	301 225 1814	MT-GLAZE 47 JA 1/16W	R5302	301 225 8615	MT-GLAZE 560K JA 1/16W
R470	301 225 1814	MT-GLAZE 47 JA 1/16W	R5303	301 224 9316	MT-GLAZE 1K JA 1/16W
R471	301 225 1814	MT-GLAZE 47 JA 1/16W	R5304	301 224 9316	MT-GLAZE 1K JA 1/16W
R472	301 225 1814	MT-GLAZE 47 JA 1/16W	R5307	301 224 9316	MT-GLAZE 1K JA 1/16W
R475	301 225 1814	MT-GLAZE 47 JA 1/16W	R5308	301 224 9316	MT-GLAZE 1K JA 1/16W
R476	301 225 1814	MT-GLAZE 47 JA 1/16W	R531	301 224 9316	MT-GLAZE 1K JA 1/16W
R478	301 225 1814	MT-GLAZE 47 JA 1/16W	R5312	301 224 9316	MT-GLAZE 1K JA 1/16W
R4803	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5313	301 224 8814	MT-GLAZE 100 JA 1/16W
R4834	301 224 9514	MT-GLAZE 2.2K JA 1/16W	R5314	301 224 9415	MT-GLAZE 1M JA 1/16W
R4861	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5317	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R4862	301 224 8814	MT-GLAZE 100 JA 1/16W	R5318	301 225 1517	MT-GLAZE 3.9K JA 1/16W
R4863	301 224 8814	MT-GLAZE 100 JA 1/16W	R5319	301 226 1516	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key. No.	Part No.	Description		Key. No.	Part No.	Description	
R532	301 225 8110	MT-GLAZE	10 JA 1/16W	R6859	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5331	301 240 9710	MT-GLAZE	820K JA 1/16W	R6863	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R5332	301 224 9316	MT-GLAZE	1K JA 1/16W	R6864	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5333	301 224 9316	MT-GLAZE	1K JA 1/16W	R6865	301 224 9316	MT-GLAZE	1K JA 1/16W
R5334	301 224 9019	MT-GLAZE	10K JA 1/16W	R6866	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5336	301 224 9316	MT-GLAZE	1K JA 1/16W	R689	301 224 9019	MT-GLAZE	10K JA 1/16W
R5337	301 224 9316	MT-GLAZE	1K JA 1/16W	R691	301 230 8013	MT-GLAZE	1K JA 1/3W
R5338	301 226 2414	MT-GLAZE	560 JA 1/16W	R696	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R534	301 224 9019	MT-GLAZE	10K JA 1/16W	R697	301 035 4111	MT-GLAZE	0.000 ZA 1/8W
R5342	301 225 0718	MT-GLAZE	56K JA 1/16W	R698	301 263 6928	MT-GLAZE	2K JA 1/16W
R5343	301 224 9316	MT-GLAZE	1K JA 1/16W	R7201	301 224 9019	MT-GLAZE	10K JA 1/16W
R5344	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7202	301 224 9019	MT-GLAZE	10K JA 1/16W
R5361	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7203	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R541	301 224 8814	MT-GLAZE	100 JA 1/16W	R7204	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R542	301 224 8814	MT-GLAZE	100 JA 1/16W	R7206	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R543	301 224 8814	MT-GLAZE	100 JA 1/16W	R7207	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R551	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7208	301 224 9316	MT-GLAZE	1K JA 1/16W
R552	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7209	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R554	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7211	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R556	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7212	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5608	301 036 1218	MT-GLAZE	22 JA 1/8W	R7221	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R561	301 224 9316	MT-GLAZE	1K JA 1/16W	R7222	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R562	301 225 8110	MT-GLAZE	10 JA 1/16W	R7226	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5621	301 224 9019	MT-GLAZE	10K JA 1/16W	R7227	301 224 9019	MT-GLAZE	10K JA 1/16W
R5622	301 298 6518	MT-GLAZE	3.3K FA 1/16W	R7228	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5623	301 301 0410	MT-GLAZE	240 FA 1/16W	R7232	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5624	301 294 3115	MT-GLAZE	1K FA 1/16W	R7233	301 224 9019	MT-GLAZE	10K JA 1/16W
R563	301 224 9019	MT-GLAZE	10K JA 1/16W	R7234	301 224 9712	MT-GLAZE	22 JA 1/16W
R5641	301 224 9415	MT-GLAZE	1M JA 1/16W	R7236	301 224 9712	MT-GLAZE	22 JA 1/16W
R5642	301 225 0114	MT-GLAZE	27K JA 1/16W	R7237	301 224 9712	MT-GLAZE	22 JA 1/16W
R5643	301 224 8913	MT-GLAZE	100K JA 1/16W	R7242	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5644	301 237 2915	MT-GLAZE	51 JA 1/16W	R7243	301 224 9019	MT-GLAZE	10K JA 1/16W
R5647	301 224 9019	MT-GLAZE	10K JA 1/16W	R7244	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5649	301 286 4717	MT-GLAZE	30K JA 1/16W	R7246	301 224 9019	MT-GLAZE	10K JA 1/16W
R5651	301 286 4717	MT-GLAZE	30K JA 1/16W	R7247	301 224 9712	MT-GLAZE	22 JA 1/16W
R5652	301 299 4810	MT-GLAZE	2.7K FA 1/16W	R7248	301 224 9712	MT-GLAZE	22 JA 1/16W
R5653	301 299 2410	MT-GLAZE	5.6K FA 1/16W	R7249	301 224 9712	MT-GLAZE	22 JA 1/16W
R5654	945 047 8155	INDUCTOR, 390 OHM		R7251	301 224 9712	MT-GLAZE	22 JA 1/16W
R5701	301 298 5511	MT-GLAZE	8.2K FA 1/16W	R7252	301 224 9712	MT-GLAZE	22 JA 1/16W
R5702	301 301 8010	MT-GLAZE	1.5K FA 1/16W	R7253	301 224 9712	MT-GLAZE	22 JA 1/16W
R5703	301 301 3718	MT-GLAZE	2K FA 1/16W	R7261	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R5704	301 224 9019	MT-GLAZE	10K JA 1/16W	R7262	301 224 9019	MT-GLAZE	10K JA 1/16W
R5706	301 224 9415	MT-GLAZE	1M JA 1/16W	R7263	301 294 4419	MT-GLAZE	1.8K FA 1/16W
R571	301 224 8814	MT-GLAZE	100 JA 1/16W	R7264	301 302 5414	MT-GLAZE	220 FA 1/16W
R572	301 224 8814	MT-GLAZE	100 JA 1/16W	R7266	301 294 3115	MT-GLAZE	1K FA 1/16W
R573	301 224 8814	MT-GLAZE	100 JA 1/16W	R7267	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R581	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7271	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R582	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7272	301 224 9019	MT-GLAZE	10K JA 1/16W
R584	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7273	301 272 7814	MT-GLAZE	100 FA 1/16W
R586	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R7274	301 225 8110	MT-GLAZE	10 JA 1/16W
R6201	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7276	301 294 3115	MT-GLAZE	1K FA 1/16W
R6202	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7277	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R6203	301 224 9019	MT-GLAZE	10K JA 1/16W	R7278	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R6204	301 224 9019	MT-GLAZE	10K JA 1/16W	R7281	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6206	301 224 9019	MT-GLAZE	10K JA 1/16W	R7282	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6211	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7283	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6212	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7284	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6213	301 224 9019	MT-GLAZE	10K JA 1/16W	R7286	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6214	301 224 9019	MT-GLAZE	10K JA 1/16W	R7287	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6216	301 224 9019	MT-GLAZE	10K JA 1/16W	R7288	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6803	301 224 9019	MT-GLAZE	10K JA 1/16W	R7289	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6813	301 224 9019	MT-GLAZE	10K JA 1/16W	R7301	301 224 9712	MT-GLAZE	22 JA 1/16W
R6823	301 224 9019	MT-GLAZE	10K JA 1/16W	R7303	301 224 9712	MT-GLAZE	22 JA 1/16W
R6841	301 225 8011	MT-GLAZE	330 JA 1/16W	R7307	301 224 9316	MT-GLAZE	1K JA 1/16W
R6843	301 225 8011	MT-GLAZE	330 JA 1/16W	R7308	301 224 9316	MT-GLAZE	1K JA 1/16W
R6846	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7309	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R6848	301 225 2019	MT-GLAZE	680 JA 1/16W	R7311	301 225 8110	MT-GLAZE	10 JA 1/16W
R6849	301 225 2019	MT-GLAZE	680 JA 1/16W	R7312	301 225 8110	MT-GLAZE	10 JA 1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7313	301 225 8110	MT-GLAZE	10 JA 1/16W
R6853	301 301 3510	MT-GLAZE	200 JA 1/16W	R7314	301 225 8110	MT-GLAZE	10 JA 1/16W
R6854	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R7316	301 224 9316	MT-GLAZE	1K JA 1/16W
R6857	301 225 1616	MT-GLAZE	390 JA 1/16W	R7317	301 224 9019	MT-GLAZE	10K JA 1/16W
R6858	301 225 1616	MT-GLAZE	390 JA 1/16W	R7318	301 226 1516	MT-GLAZE	0.000 ZA 1/16W

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R7319	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8723	301 225 1319	MT-GLAZE 470 JA 1/16W
R7321	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8724	301 224 9019	MT-GLAZE 10K JA 1/16W
R7322	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8726	301 224 9019	MT-GLAZE 10K JA 1/16W
R7323	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8732	301 224 8913	MT-GLAZE 100K JA 1/16W
R7801	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8733	301 224 8814	MT-GLAZE 100 JA 1/16W
R7802	301 224 9316	MT-GLAZE 1K JA 1/16W	R8746	301 224 8913	MT-GLAZE 100K JA 1/16W
R7803	301 224 9316	MT-GLAZE 1K JA 1/16W	R8747	301 225 9018	MT-GLAZE 470K JA 1/16W
R7804	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8748	301 224 8913	MT-GLAZE 100K JA 1/16W
R7806	301 261 1014	MT-GLAZE 2.4K JA 1/16W	R8749	301 237 2410	MT-GLAZE 270K JA 1/16W
R7807	301 336 8818	MT-GLAZE 6.8K FA 1/16W	R8751	301 261 1410	MT-GLAZE 430 JA 1/16W
R7808	301 294 2811	MT-GLAZE 2.2K FA 1/16W	R8752	301 234 4714	MT-GLAZE 3.3 JA 1W
R7809	301 224 9316	MT-GLAZE 1K JA 1/16W	R8754	301 225 8714	MT-GLAZE 120K JA 1/16W
R7811	301 235 0012	MT-GLAZE 7.5K JA 1/16W	R8755	301 234 4714	MT-GLAZE 3.3 JA 1W
R7812	301 284 3613	MT-GLAZE 16K JA 1/16W	R8756	301 301 3510	MT-GLAZE 200 JA 1/16W
R7821	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8757	301 225 0817	MT-GLAZE 68K JA 1/16W
R7822	301 261 1014	MT-GLAZE 2.4K JA 1/16W	R8758	301 261 2011	MT-GLAZE 9.1K JA 1/16W
R7823	301 336 8818	MT-GLAZE 6.8K FA 1/16W	R8759	301 225 8714	MT-GLAZE 120K JA 1/16W
R7824	301 294 2811	MT-GLAZE 2.2K FA 1/16W	R8760	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7841	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8761	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R7842	301 224 9316	MT-GLAZE 1K JA 1/16W	R8762	301 224 9316	MT-GLAZE 1K JA 1/16W
R7843	301 224 9316	MT-GLAZE 1K JA 1/16W	R8763	301 224 9316	MT-GLAZE 1K JA 1/16W
R7844	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8764	301 259 7922	MT-GLAZE 5.1K JA 1/16W
R7846	301 261 1014	MT-GLAZE 2.4K JA 1/16W	R8771	301 234 4714	MT-GLAZE 3.3 JA 1W
R7847	301 336 8818	MT-GLAZE 6.8K FA 1/16W	R8772	301 234 4714	MT-GLAZE 3.3 JA 1W
R7848	301 294 2811	MT-GLAZE 2.2K FA 1/16W	R8773	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7849	301 224 9316	MT-GLAZE 1K JA 1/16W	R8776	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7851	301 235 0012	MT-GLAZE 7.5K JA 1/16W	R8777	301 224 9316	MT-GLAZE 1K JA 1/16W
R7852	301 284 3613	MT-GLAZE 16K JA 1/16W	R8778	301 224 9811	MT-GLAZE 220K JA 1/16W
R7861	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8779	301 224 9811	MT-GLAZE 220K JA 1/16W
R7862	301 261 1014	MT-GLAZE 2.4K JA 1/16W	R8782	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7863	301 336 8818	MT-GLAZE 6.8K FA 1/16W	R8784	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7864	301 294 2811	MT-GLAZE 2.2K FA 1/16W	R8787	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7871	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8811	301 225 8110	MT-GLAZE 10 JA 1/16W
R7872	301 224 9316	MT-GLAZE 1K JA 1/16W	R8812	301 225 8110	MT-GLAZE 10 JA 1/16W
R7873	301 224 9316	MT-GLAZE 1K JA 1/16W	R8821	301 225 8110	MT-GLAZE 10 JA 1/16W
R7874	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8822	301 225 8110	MT-GLAZE 10 JA 1/16W
R7876	301 261 1014	MT-GLAZE 2.4K JA 1/16W	R896	301 226 2414	MT-GLAZE 560 JA 1/16W
R7877	301 336 8818	MT-GLAZE 6.8K FA 1/16W	R898	301 224 8814	MT-GLAZE 100 JA 1/16W
R7878	301 294 2811	MT-GLAZE 2.2K FA 1/16W	R9621	301 224 9415	MT-GLAZE 1M JA 1/16W
R7879	301 224 9316	MT-GLAZE 1K JA 1/16W	R9622	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7881	301 235 0012	MT-GLAZE 7.5K JA 1/16W	R9624	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7882	301 284 3613	MT-GLAZE 16K JA 1/16W	R9626	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7891	301 224 9019	MT-GLAZE 10K JA 1/16W	R9627	301 225 0114	MT-GLAZE 27K JA 1/16W
R7892	301 225 1418	MT-GLAZE 47K JA 1/16W	R9628	301 224 9019	MT-GLAZE 10K JA 1/16W
R801	301 224 9019	MT-GLAZE 10K JA 1/16W	R9629	301 224 9019	MT-GLAZE 10K JA 1/16W
R804	301 224 9019	MT-GLAZE 10K JA 1/16W	R9630	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R9640	423 033 5703	FUSE 32V 1.25A
R807	301 224 9019	MT-GLAZE 10K JA 1/16W	R9641	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R808	301 224 9019	MT-GLAZE 10K JA 1/16W	R9642	301 259 7823	MT-GLAZE 20K JA 1/16W
R809	301 225 8516	MT-GLAZE 1.8K JA 1/16W	R9643	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R812	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R9644	301 294 3016	MT-GLAZE 10K FA 1/16W
R846	301 224 9316	MT-GLAZE 1K JA 1/16W	R9646	301 224 9019	MT-GLAZE 10K JA 1/16W
R851	301 224 9316	MT-GLAZE 1K JA 1/16W	R9647	301 225 0114	MT-GLAZE 27K JA 1/16W
R852	301 225 1210	MT-GLAZE 4.7K JA 1/16W	R9649	301 224 9316	MT-GLAZE 1K JA 1/16W
R8700	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	R9651	301 224 8913	MT-GLAZE 100K JA 1/16W
R8701	301 224 9019	MT-GLAZE 10K JA 1/16W	R9652	301 224 9019	MT-GLAZE 10K JA 1/16W
R8702	301 224 9019	MT-GLAZE 10K JA 1/16W	R9653	301 259 7823	MT-GLAZE 20K JA 1/16W
R8703	301 224 9019	MT-GLAZE 10K JA 1/16W	R9654	301 225 1418	MT-GLAZE 47K JA 1/16W
R8704	301 224 9019	MT-GLAZE 10K JA 1/16W	R9656	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8706	301 259 7922	MT-GLAZE 5.1K JA 1/16W	R9657	301 264 0311	MT-GLAZE 1 JA 1/10W
R8707	301 224 9019	MT-GLAZE 10K JA 1/16W	R9658	301 264 0311	MT-GLAZE 1 JA 1/10W
R8708	301 225 1319	MT-GLAZE 470 JA 1/16W	R9659	301 264 0311	MT-GLAZE 1 JA 1/10W
R8711	301 224 9019	MT-GLAZE 10K JA 1/16W	R9661	301 264 0311	MT-GLAZE 1 JA 1/10W
R8712	301 224 9019	MT-GLAZE 10K JA 1/16W	R9881	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R8713	301 224 9019	MT-GLAZE 10K JA 1/16W	R9882	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8714	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R9883	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8715	301 225 0213	MT-GLAZE 3.3K JA 1/16W	RB301	945 034 5051	R-NETWORK 22X4 1/32W
R8716	301 225 0213	MT-GLAZE 3.3K JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W
R8717	301 224 9019	MT-GLAZE 10K JA 1/16W	RB302	945 034 5051	R-NETWORK 22X4 1/32W
R8718	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W
R8719	301 224 9019	MT-GLAZE 10K JA 1/16W	RB303	945 034 5051	R-NETWORK 22X4 1/32W
R8721	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0824	R-NETWORK 22X4 1/16W
R8722	301 224 9316	MT-GLAZE 1K JA 1/16W	RB304	945 034 5051	R-NETWORK 22X4 1/32W

Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
RB306	945 037 0824	R-NETWORK 22X4 1/16W	L1011	945 068 8349	FILTER,EMI 400MHZ
	945 034 5051	R-NETWORK 22X4 1/32W	L1021	945 068 8349	FILTER,EMI 400MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L1031	945 068 8332	FILTER,EMI 200MHZ
RB307	945 034 5051	R-NETWORK 22X4 1/32W	L1041	945 068 8332	FILTER,EMI 200MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L1051	945 068 8349	FILTER,EMI 400MHZ
RB401	945 036 0986	R-NETWORK 47X4 1/32W	L1061	945 068 8349	FILTER,EMI 400MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1071	945 068 8349	FILTER,EMI 400MHZ
RB402	945 036 0986	R-NETWORK 47X4 1/32W	L1081	945 068 8332	FILTER,EMI 200MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1091	945 068 8332	FILTER,EMI 200MHZ
RB403	945 036 0986	R-NETWORK 47X4 1/32W	L1371	945 062 2930	INDUCTOR,10U M
	945 037 0831	R-NETWORK 47X4 1/16W	L2071	945 086 7577	FILTER,EMI 400MHZ
RB404	945 036 0986	R-NETWORK 47X4 1/32W	L2081	945 086 7577	FILTER,EMI 400MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L2091	945 086 7577	FILTER,EMI 400MHZ
RB405	945 036 0986	R-NETWORK 47X4 1/32W	L2092	945 086 7461	FILTER,EMI 100MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L2501	945 041 1978	INDUCTOR,330 OHM
RB406	945 036 0986	R-NETWORK 47X4 1/32W	L2521	945 041 1978	INDUCTOR,330 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L2531	945 041 1978	INDUCTOR,330 OHM
RB407	945 036 0986	R-NETWORK 47X4 1/32W	L2551	945 041 1978	INDUCTOR,330 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L2561	945 041 1978	INDUCTOR,330 OHM
RB408	945 036 0986	R-NETWORK 47X4 1/32W	L2581	945 041 1978	INDUCTOR,330 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L2891	945 041 1978	INDUCTOR,330 OHM
RB409	945 036 0986	R-NETWORK 47X4 1/32W	L2892	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0831	R-NETWORK 47X4 1/16W	L301	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB410	945 036 0986	R-NETWORK 47X4 1/32W	L302	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L303	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB411	945 036 0986	R-NETWORK 47X4 1/32W	L304	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L305	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB412	945 036 0986	R-NETWORK 47X4 1/32W	L3051	945 068 8325	FILTER,EMI 20MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L3052	945 068 8325	FILTER,EMI 20MHZ
RB413	945 036 0986	R-NETWORK 47X4 1/32W	L306	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L307	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB414	945 036 0986	R-NETWORK 47X4 1/32W	L308	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L309	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB415	945 036 0986	R-NETWORK 47X4 1/32W	L311	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L312	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB416	945 036 0986	R-NETWORK 47X4 1/32W	L313	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	945 037 0831	R-NETWORK 47X4 1/16W	L314	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB417	945 036 0986	R-NETWORK 47X4 1/32W	L3581	945 062 2824	INDUCTOR,3.3U M
	945 037 0831	R-NETWORK 47X4 1/16W	L3621	945 041 1978	INDUCTOR,330 OHM
RB418	945 036 0986	R-NETWORK 47X4 1/32W	L3622	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0831	R-NETWORK 47X4 1/16W	L3623	945 041 1978	INDUCTOR,330 OHM
RB501	945 036 3529	R-NETWORK 0X4 1/32W	L3624	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L3626	645 092 3616	IMPEDANCE,22 OHM P
RB502	945 036 3529	R-NETWORK 0X4 1/32W	L3627	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L3628	945 041 1978	INDUCTOR,330 OHM
RB503	945 036 3529	R-NETWORK 0X4 1/32W	L3629	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L3631	945 041 1978	INDUCTOR,330 OHM
RB531	945 036 3529	R-NETWORK 0X4 1/32W	L3632	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L3633	645 092 3616	IMPEDANCE,22 OHM P
RB532	945 036 3529	R-NETWORK 0X4 1/32W	L3634	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L3636	945 041 1978	INDUCTOR,330 OHM
RB533	945 036 3529	R-NETWORK 0X4 1/32W	L3637	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L3638	945 041 1978	INDUCTOR,330 OHM
RB561	945 036 3529	R-NETWORK 0X4 1/32W	L401	945 086 6594	IMPEDANCE,100 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L402	945 086 6594	IMPEDANCE,100 OHM P
RB562	945 036 3529	R-NETWORK 0X4 1/32W	L403	945 002 5045	INDUCTOR,0.10U M
	945 037 0817	R-NETWORK 0X4 1/16W	L4811	645 092 3616	IMPEDANCE,22 OHM P
RB563	945 036 3529	R-NETWORK 0X4 1/32W	L4812	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L4813	645 092 3616	IMPEDANCE,22 OHM P
RB7201	945 034 5051	R-NETWORK 22X4 1/32W	L4814	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0824	R-NETWORK 22X4 1/16W	L4891	645 092 3616	IMPEDANCE,22 OHM P
RB7202	945 034 5051	R-NETWORK 22X4 1/32W	L4892	645 092 3616	IMPEDANCE,22 OHM P
	945 037 0824	R-NETWORK 22X4 1/16W	L501	945 041 1978	INDUCTOR,330 OHM
RB7203	945 034 5051	R-NETWORK 22X4 1/32W	L5201	945 041 1978	INDUCTOR,330 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L5202	945 041 1978	INDUCTOR,330 OHM
RB7204	945 034 5051	R-NETWORK 22X4 1/32W	L521	945 041 1978	INDUCTOR,330 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L5302	945 041 1978	INDUCTOR,330 OHM
RB7206	945 034 5051	R-NETWORK 22X4 1/32W	L531	945 041 1978	INDUCTOR,330 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L5331	945 041 1978	INDUCTOR,330 OHM
RB7207	945 034 5051	R-NETWORK 22X4 1/32W	L5332	945 032 8344	INDUCTOR,39U J
	945 037 0824	R-NETWORK 22X4 1/16W	L551	945 041 1978	INDUCTOR,330 OHM
COIL			L5601	645 092 3616	IMPEDANCE,22 OHM P
L1001	945 068 8349	FILTER,EMI 400MHZ	L561	945 041 1978	INDUCTOR,330 OHM

- 100 -

Electrical Parts List

Key. No. Part No. Description					
R2054	301 224 8913	MT-GLAZE	100K JA	1/16W	
R2056	301 224 8814	MT-GLAZE	100 JA	1/16W	
R2057	301 225 1418	MT-GLAZE	47K JA	1/16W	
R3001	301 224 8913	MT-GLAZE	100K JA	1/16W	
R3003	301 224 8814	MT-GLAZE	100 JA	1/16W	
R3011	301 224 8913	MT-GLAZE	100K JA	1/16W	
R3013	301 224 8814	MT-GLAZE	100 JA	1/16W	
R3021	301 224 8913	MT-GLAZE	100K JA	1/16W	
R3022	301 224 8814	MT-GLAZE	100 JA	1/16W	
R3031	301 224 8913	MT-GLAZE	100K JA	1/16W	
R3032	301 224 8814	MT-GLAZE	100 JA	1/16W	
COIL					
L2001	945 068 8318	FILTER,EMI	100MHZ		
L2011	945 086 7461	FILTER,EMI	100MHZ		
L2021	945 086 7461	FILTER,EMI	100MHZ		
L2031	945 086 7461	FILTER,EMI	100MHZ		
L2051	945 068 8325	FILTER,EMI	20MHZ		
L2052	945 068 8325	FILTER,EMI	20MHZ		
L3001	945 068 8325	FILTER,EMI	20MHZ		
L3011	945 068 8325	FILTER,EMI	20MHZ		
L3021	945 068 8325	FILTER,EMI	20MHZ		
L3031	945 068 8325	FILTER,EMI	20MHZ		
DIODE					
D2031	307 223 0514	ZENER DIODE	02DZ12Y (TPH3)		
MISCELLANEOUS					
K20A	645 089 9041	SOCKET,DIN	4P		
K20B	945 068 3740	JACK,RCA	-3		
K40A	945 006 4792	JACK,PHONE	D3.6		
K40B	945 006 4792	JACK,PHONE	D3.6		
SC2001	945 076 3503	SURGE-ABSORBER			
SC2011	945 076 3503	SURGE-ABSORBER			
SC2021	945 076 3503	SURGE-ABSORBER			
SC2031	945 076 3503	SURGE-ABSORBER			
SC2051	945 076 3503	SURGE-ABSORBER			
SC2052	945 076 3503	SURGE-ABSORBER			
SC3001	945 076 3503	SURGE-ABSORBER			
SC3011	945 076 3503	SURGE-ABSORBER			
SC3021	945 076 3503	SURGE-ABSORBER			
SC3031	945 076 3503	SURGE-ABSORBER			
SC8751	945 076 3503	SURGE-ABSORBER			
SC8752	945 076 3503	SURGE-ABSORBER			
SC8753	945 076 3503	SURGE-ABSORBER			
SC8754	945 076 3503	SURGE-ABSORBER			
SW8751	910 011 4433	SWITCH,PUSH			
SW8752	910 011 4433	SWITCH,PUSH			
SW8753	910 011 4433	SWITCH,PUSH			
SW8754	910 011 4433	SWITCH,PUSH			
610 335 7867 ASSY,PWB,BUZZER KL3A					
RESISTOR					
R2100	301 255 6513	MT-GLAZE	100 JA	1/10W	
R8731	301 150 5918	MT-GLAZE	10K JA	1/10W	
MISCELLANEOUS					
IC2100	420 002 2602	PZ BZR	PKM22EP	PH4012	
IC8710	945 081 3857	SWITCH,SENSOR	2P-2T		
SW2100	945 063 5176	SWITCH,PUSH	2P-2TX3		
610 335 7904 ASSY,PWB,R/C KL3A					
CAPACITOR					
C2901	303 433 1112	CERAMIC	1U K	10V	
C2902	303 282 5118	CERAMIC	470P K	50V	
C2903	303 380 0114	CERAMIC	47U M	6.3V	
RESISTOR					
R2901	301 225 1814	MT-GLAZE	47 JA	1/16W	
R2902	301 224 8814	MT-GLAZE	100 JA	1/16W	
MISCELLANEOUS					
A2901	945 084 1997	UNIT,REMOCON	RECEIVER		

Key. No. Part No. Description					
610 335 7898 ASSY,PWB,LAMP COVER SW.					
SW901	945 063 5176	SWITCH,PUSH	2P-2TX3		
610 335 8239 ASSY,PWB,TEMP KL3A					
CAPACITOR					
C4831	303 276 3113	CERAMIC	33P J	50V	
C4832	303 276 3113	CERAMIC	33P J	50V	
C4833	303 409 3426	CERAMIC	0.1U K	16V	
C4834	303 379 6714	CERAMIC	10U K	16V	
RESISTOR					
R4831	301 225 8110	MT-GLAZE	10 JA	1/16W	
R4832	301 225 8110	MT-GLAZE	10 JA	1/16W	
R4833	301 224 9019	MT-GLAZE	10K JA	1/16W	
610 335 7843 ASSY,PWB,POWER KL3A					
TRANSISTOR					
Q601	405 218 6002	TR	2SK3934	LBS1	
Q602	405 218 6002	TR	2SK3934	LBS1	
Q621	305 014 4512	TR	2SC2412K	T146 R	
	305 014 4611	TR	2SC2412K	T146 S	
	305 015 8727	TR	2SC2812-L6-TB		
	305 015 8925	TR	2SC2812-L7-TB		
	305 163 1615	TR	2SC2812N-L6-TB0		
	305 173 9816	TR	2SC3928A1R		
	305 173 9915	TR	2SC3928A1S		
Q622	305 134 5928	TR	2SA1037AK-T146-R		
	305 147 2218	TR	2SA1037AK-S-T146		
	305 173 9618	TR	2SA1235A1E		
	305 173 9717	TR	2SA1235A1F		
	405 220 3115	TR	ISA1235AC1E		
	405 220 3016	TR	ISA1235AC1F		
Q651	305 134 5928	TR	2SA1037AK-T146-R		
	305 147 2218	TR	2SA1037AK-S-T146		
	305 173 9618	TR	2SA1235A1E		
	305 173 9717	TR	2SA1235A1F		
	405 220 3115	TR	ISA1235AC1E		
	405 220 3016	TR	ISA1235AC1F		
Q652	305 014 4512	TR	2SC2412K	T146 R	
	305 014 4611	TR	2SC2412K	T146 S	
	305 015 8727	TR	2SC2812-L6-TB		
	305 015 8925	TR	2SC2812-L7-TB		
	305 163 1615	TR	2SC2812N-L6-TB0		
	305 173 9816	TR	2SC3928A1R		
	305 173 9915	TR	2SC3928A1S		
Q681	305 014 4512	TR	2SC2412K	T146 R	
	305 014 4611	TR	2SC2412K	T146 S	
	305 015 8727	TR	2SC2812-L6-TB		
	305 015 8925	TR	2SC2812-L7-TB		
	305 163 1615	TR	2SC2812N-L6-TB0		
	305 173 9816	TR	2SC3928A1R		
	305 173 9915	TR	2SC3928A1S		
Q682	305 014 4512	TR	2SC2412K	T146 R	
	305 014 4611	TR	2SC2412K	T146 S	
	305 015 8727	TR	2SC2812-L6-TB		
	305 015 8925	TR	2SC2812-L7-TB		
	305 163 1615	TR	2SC2812N-L6-TB0		
	305 173 9816	TR	2SC3928A1R		
	305 173 9915	TR	2SC3928A1S		
INTEGRATED CIRCUIT					
IC601	309 523 1413	IC	FA5502M		
IC651	309 558 4202	IC	STR-Z2156A		
IC681	309 344 6522	IC	UPC1093T-E1		
CAPACITOR					
△C607	303 371 8518	MT-POLYEST	1U K	400V	
	303 427 2019	MT-POLYEST	1U K	400V	
	303 451 4119	MT-POLYEST	1U K	450V	
C608	303 222 1326	CERAMIC	1000P K	1K	
C609	303 222 1326	CERAMIC	1000P K	1K	
△C611	303 371 8518	MT-POLYEST	1U K	400V	

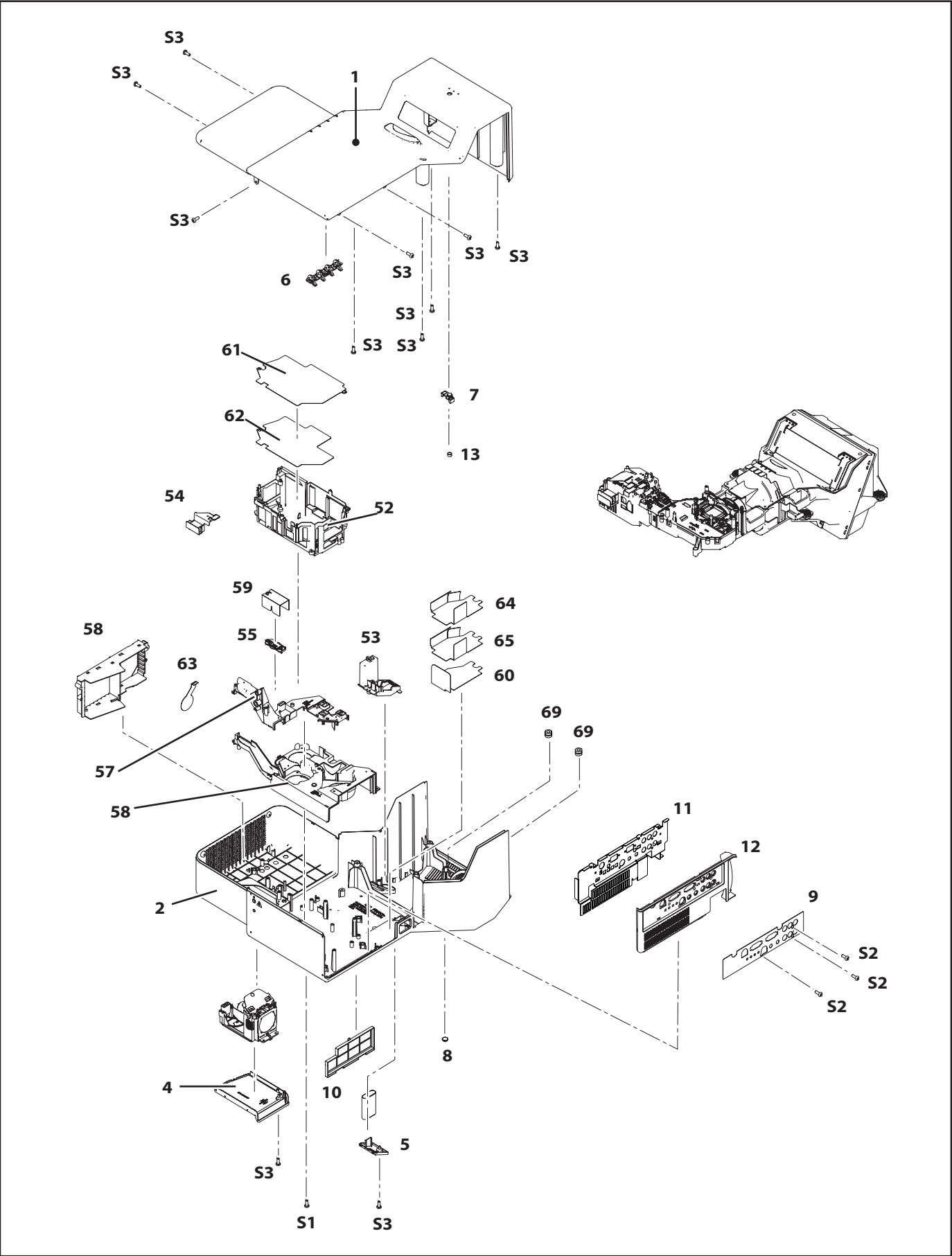
Electrical Parts List

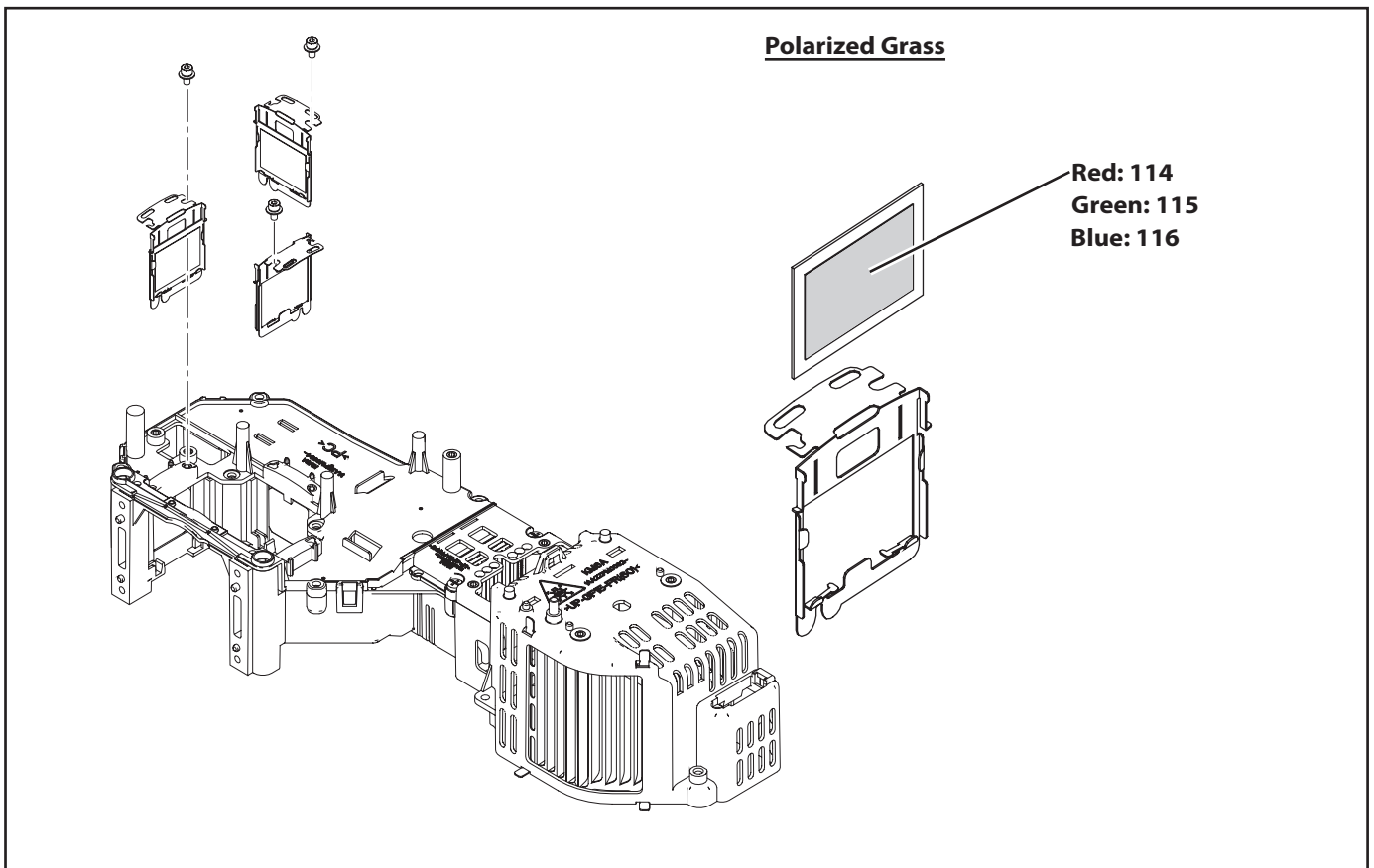
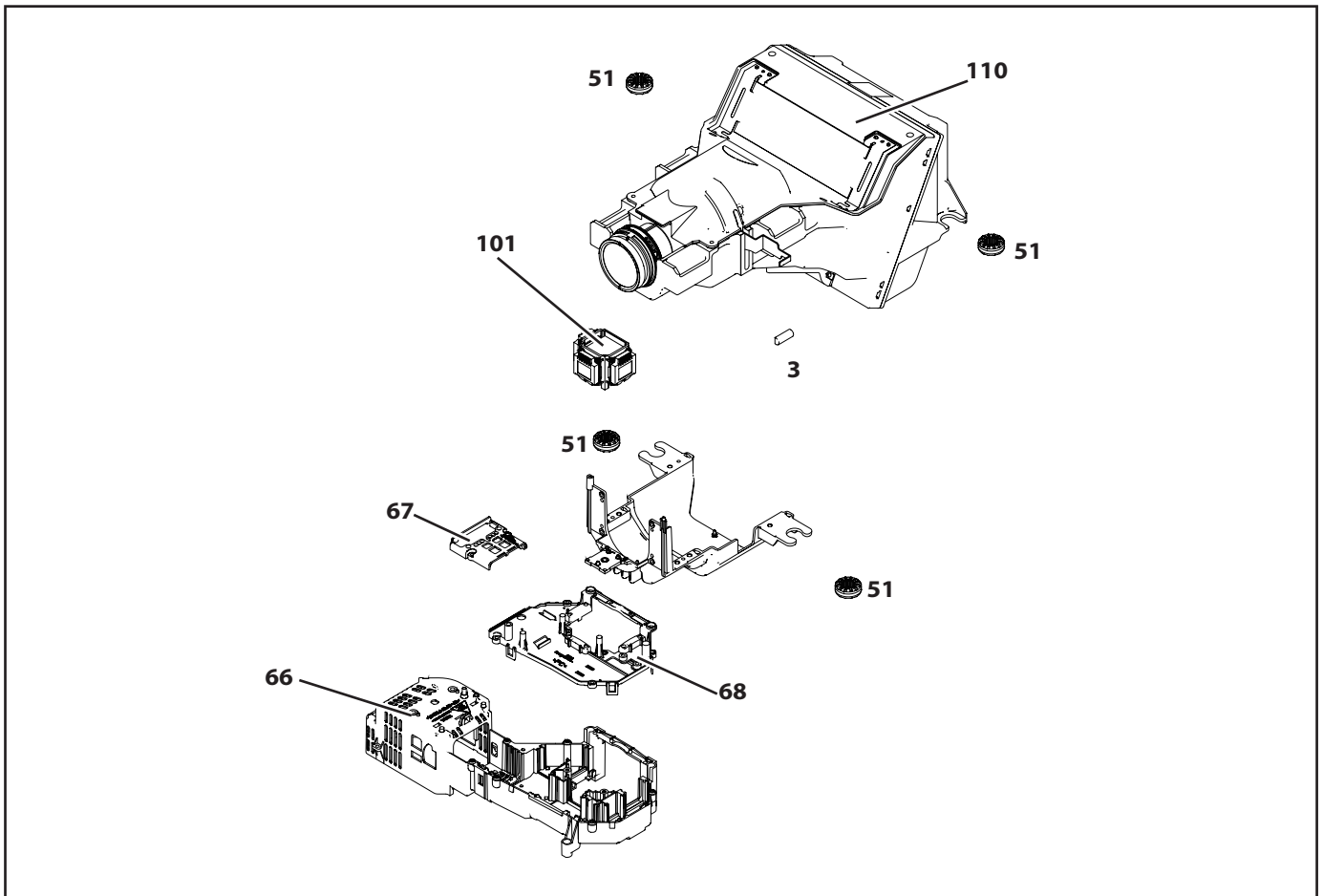
Key. No. Part No. Description							Key. No. Part No. Description									
C612	303	427	2019	MT-POLYEST	1U	K	400V	R638	301	259	9015	MT-GLAZE	150K	FA	1/2W	
	303	451	4119	MT-POLYEST	1U	K	450V	R639	301	259	9015	MT-GLAZE	150K	FA	1/2W	
	303	433	2812	ELECT	220U	M	35V	R641	301	259	9015	MT-GLAZE	150K	FA	1/2W	
	303	410	7113	ELECT	100U	M	25V	R642	301	259	9015	MT-GLAZE	150K	FA	1/2W	
	303	410	7113	ELECT	100U	M	25V	R647	301	256	6611	MT-GLAZE	68K	JA	1/10W	
	404	115	2704	ELECT	330U	M	420V	R648	301	162	2417	MT-GLAZE	1.2K	JA	1/10W	
	404	115	6306	ELECT	330U	M	420V	R649	301	255	9514	MT-GLAZE	220K	JA	1/10W	
	303	427	1814	MT-POLYEST	0.1U	K	450V	R650	301	255	8517	MT-GLAZE	9.1K	JA	1/10W	
	303	298	9612	CERAMIC	0.1U	K	16V	R651	301	237	0010	MT-GLAZE	47K	JA	1W	
	303	205	2811	CERAMIC	0.047U	K	25V	R652	301	237	0010	MT-GLAZE	47K	JA	1W	
C622	303	157	6417	CERAMIC	330P	K	50V	R653	301	237	0010	MT-GLAZE	47K	JA	1W	
C623	303	215	2214	CERAMIC	0.01U	K	50V	R654	301	237	0010	MT-GLAZE	47K	JA	1W	
C624	303	342	3313	CERAMIC	0.1U	K	25V	R655	301	162	4015	MT-GLAZE	560	JA	1/10W	
C625	303	402	3918	ELECT	4.7U	M	50V	R656	301	237	0010	MT-GLAZE	47K	JA	1W	
C626	303	342	3313	CERAMIC	0.1U	K	25V	R657	301	237	0010	MT-GLAZE	47K	JA	1W	
C627	303	342	3313	CERAMIC	0.1U	K	25V	△R658	302	081	2905	FUSIBLE RES	22	JH	1/2W	
C628	303	157	3317	CERAMIC	68P	J	50V	R659	301	238	4512	MT-GLAZE	47	JA	1/3W	
C629	303	157	6615	CERAMIC	470P	K	50V	△R660	302	081	2905	FUSIBLE RES	22	JH	1/2W	
C631	303	298	9612	CERAMIC	0.1U	K	16V	△R661	324	006	1305	FUSE	250V	2.5A		
C632	303	342	3313	CERAMIC	0.1U	K	25V	R671	301	150	6212	MT-GLAZE	1K	JA	1/10W	
C633	303	342	3313	CERAMIC	0.1U	K	25V	R672	301	257	7419	MT-GLAZE	120	JA	1/3W	
C636	303	427	1814	MT-POLYEST	0.1U	K	450V	R673	301	162	3711	MT-GLAZE	4.7K	JA	1/10W	
C650	303	342	3313	CERAMIC	0.1U	K	25V	R674	301	256	2613	MT-GLAZE	2.4K	JA	1/10W	
C651	303	268	7013	TA-SOLID	2.2U	M	35V	R679	301	258	2611	MT-GLAZE	150	FA	1/10W	
C652	303	367	0410	CERAMIC	0.1U	K	50V	R681	301	150	5918	MT-GLAZE	10K	JA	1/10W	
C653	303	113	3818	CERAMIC	1000P	K	50V	R682	301	256	6215	MT-GLAZE	270	JA	1/10W	
C654	303	247	3319	CERAMIC	330P	K	2K	R683	301	150	6212	MT-GLAZE	1K	JA	1/10W	
C655	303	367	0410	CERAMIC	0.1U	K	50V	R684	301	150	5918	MT-GLAZE	10K	JA	1/10W	
C656	303	342	3313	CERAMIC	0.1U	K	25V	R686	301	162	3414	MT-GLAZE	39K	JA	1/10W	
C657	303	218	8817	CERAMIC	220P	K	2K	R687	301	265	4417	MT-GLAZE	6.8K	FA	1/10W	
C658	303	083	4310	POLYPRO	0.022U	J	400V	R688	301	150	5918	MT-GLAZE	10K	JA	1/10W	
C659	303	157	6813	CERAMIC	680P	K	50V	R692	301	150	6212	MT-GLAZE	1K	JA	1/10W	
C661	303	208	1415	TA-SOLID	1U	M	25V	R693	301	150	5918	MT-GLAZE	10K	JA	1/10W	
	303	411	5712	TA-SOLID	1U	M	25V	R694	301	162	3711	MT-GLAZE	4.7K	JA	1/10W	
C662	303	411	1823	ELECT	220U	M	35V	R699	301	238	4215	MT-GLAZE	1.5K	JA	1/3W	
C663	303	342	3313	CERAMIC	0.1U	K	25V	VARIABLE RESISTOR								
C664	303	281	2415	CERAMIC	0.22U	K	16V	VR601	945	025	7415	VR, SEMI, 1K	S			
C681	303	410	7509	ELECT	4700U	M	25V	TRANSFORMER								
C682	303	342	3313	CERAMIC	0.1U	K	25V	T601	645	089	2561	INDUCTOR, 700U				
C683	303	445	3903	ELECT	3900U	M	10V	△T651	945	085	7035	TRANS, POWER, PULSE				
C684	303	342	3313	CERAMIC	0.1U	K	25V	COIL								
C685	303	399	2126	ELECT	220U	M	16V	L603	945	081	4878	LINE FILTER				
C686	303	348	5826	CERAMIC	0.47U	K	10V	L611	645	089	2677	FILTER, EMI 1500PF				
C688	303	342	3313	CERAMIC	0.1U	K	25V	L614	645	089	2677	FILTER, EMI 1500PF				
C691	303	281	2415	CERAMIC	0.22U	K	16V	L616	645	089	2677	FILTER, EMI 1500PF				
C692	303	397	8219	CERAMIC	2.2U	K	25V	DIODE								
RESISTOR							D601	307	247	8827	DIODE	RF101L2S				
R602	301	242	3914	MT-GLAZE	240K	JA	1/2W	D602	307	247	8827	DIODE	RF101L2S			
R603	301	242	3914	MT-GLAZE	240K	JA	1/2W	D603	307	164	4015	DIODE	RB160L-40-TE25			
R604	301	258	8217	MT-GLAZE	680	JA	1/3W		307	149	6327	DIODE	SFPB-54V			
R606	302	080	8809	MT-GLAZE	680	KA	1W	D604	307	225	4401	DIODE	FMX-G26S			
R612	301	256	2613	MT-GLAZE	2.4K	JA	1/10W	D605	307	223	0811	ZENER DIODE	02DZ22Y (TPH3)			
R613	402	109	8206	RESISTER	0.15	JB	5W	D606	307	163	0414	DIODE	1SS352- (TPH3)			
R614	402	109	8206	RESISTER	0.15	JB	5W		307	149	0810	DIODE	1SS355-TE-17			
R615	301	255	6513	MT-GLAZE	100	JA	1/10W	D607	307	163	0414	DIODE	1SS352- (TPH3)			
R618	301	162	3711	MT-GLAZE	4.7K	JA	1/10W		307	149	0810	DIODE	1SS355-TE-17			
R619	301	150	6014	MT-GLAZE	0.000	ZA	1/10W	D608	307	163	0414	DIODE	1SS352- (TPH3)			
R620	301	255	6513	MT-GLAZE	100	JA	1/10W		307	149	0810	DIODE	1SS355-TE-17			
R621	301	255	8715	MT-GLAZE	22	JA	1/10W	D609	307	163	0414	DIODE	1SS352- (TPH3)			
R622	301	264	9918	MT-GLAZE	36K	FA	1/10W		307	149	0810	DIODE	1SS355-TE-17			
R624	301	162	2714	MT-GLAZE	180	JA	1/10W	D610	307	164	4015	DIODE	RB160L-40-TE25			
R625	301	265	0914	MT-GLAZE	4.7	JA	1/10W		307	149	6327	DIODE	SFPB-54V			
R626	301	152	3219	MT-GLAZE	330	JA	1/10W	D615	307	163	0414	DIODE	1SS352- (TPH3)			
R627	301	265	0914	MT-GLAZE	4.7	JA	1/10W		307	149	0810	DIODE	1SS355-TE-17			
R628	301	255	6513	MT-GLAZE	100	JA	1/10W	D651	307	247	8827	DIODE	RF101L2S			
R630	301	256	7519	MT-GLAZE	390	JA	1/10W	D652	407	256	3213	DIODE	CRF03 (TE85L)			
R631	301	150	5918	MT-GLAZE	10K	JA	1/10W	D653	307	223	0514	ZENER DIODE	02DZ12Y (TPH3)			
R632	301	150	6410	MT-GLAZE	4.3K	JA	1/10W	D654	307	163	0414	DIODE	1SS352- (TPH3)			
R633	301	162	3810	MT-GLAZE	470K	JA	1/10W		307	149	0810	DIODE	1SS355-TE-17			
R634	301	256	5812	MT-GLAZE	270K	JA	1/10W	D681	307	202	9801	DIODE	FMB-26L			
R635	301	255	6513	MT-GLAZE	100	JA	1/10W		307	253	7504	DIODE	RB085T-60			
R636	301	152	3110	MT-GLAZE	620	JA	1/10W	D682	307	202	9801	DIODE	FMB-26L			
R637	301	264	2810	MT-GLAZE	1.2K	FA	1/10W									

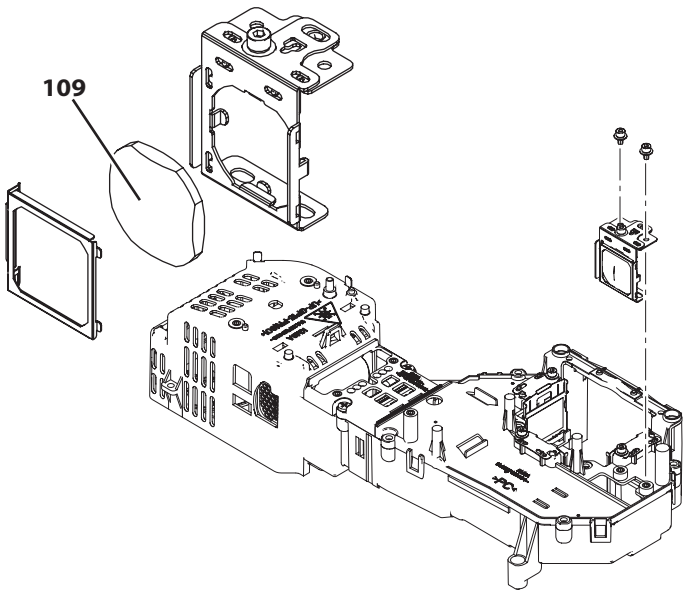
Electrical Parts List

Key. No.	Part No.	Description	Key. No.	Part No.	Description
	307 253 7504	DIODE RB085T-60			
D683	307 247 8827	DIODE RF101L2S			
D686	307 223 1115	ZENER DIODE 02DZ6.2Y (TPH3			
D687	307 210 5416	DIODE RB551V-30-TE-17			
△DB601	307 143 6006	DIODE RBV-1506			
	308 045 4909	DIODE RBV-1506 LF-B			
DS601	307 219 0808	THYRISTOR TF861S			
		MISCELLANEOUS			
FB601	910 244 3975	CORE			
FB602	910 244 3975	CORE			
△PC601	307 223 7315	PC TLP421F (D4-GB-TP4)			
	307 223 8312	PC TLP421F (D4-GR-TP4)			
△PC602	307 223 7315	PC TLP421F (D4-GB-TP4)			
	307 223 8312	PC TLP421F (D4-GR-TP4)			
PTH601	308 037 5600	THERMISTOR NTH11D8R0LC			
PTH652	308 061 3900	TH PRF18BC471QB1RB			
610 335 7812 ASSY,PWB,LINE FILTER KL3A					
		CAPACITOR			
△C601	404 113 2904	MT-POLYEST 0.33U K 275V			
△C602	404 113 2904	MT-POLYEST 0.33U K 275V			
△C603	304 104 9502	CERAMIC 1500P K 250V			
△C604	304 104 9502	CERAMIC 1500P K 250V			
		RESISTOR			
R600	301 238 1016	MT-GLAZE 120K JA 1/2W			
R601	301 238 1016	MT-GLAZE 120K JA 1/2W			
		VARIABLE RESISTOR			
△VA601	308 061 5607	VARISTOR ENE471D-14A-S6			
		COIL			
L601	945 050 2232	LINE FILTER			
		MISCELLANEOUS			
△F601	323 025 1204	FUSE 250V 8A			
△F601A	945 006 4761	HOLDER, FUSE			
△F601B	945 006 4761	HOLDER, FUSE			
△K601	645 094 0958	UNIT, NOISE FILTER			

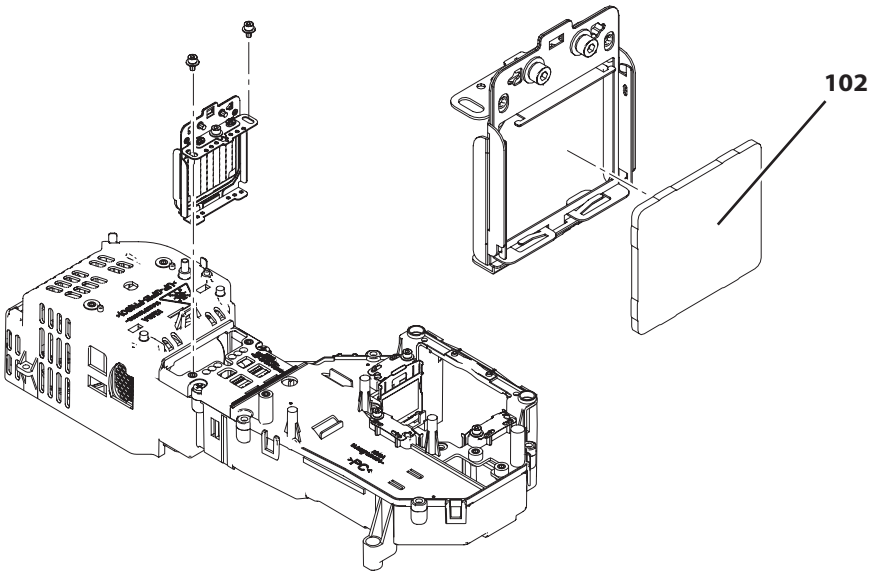
Mechanical Parts List

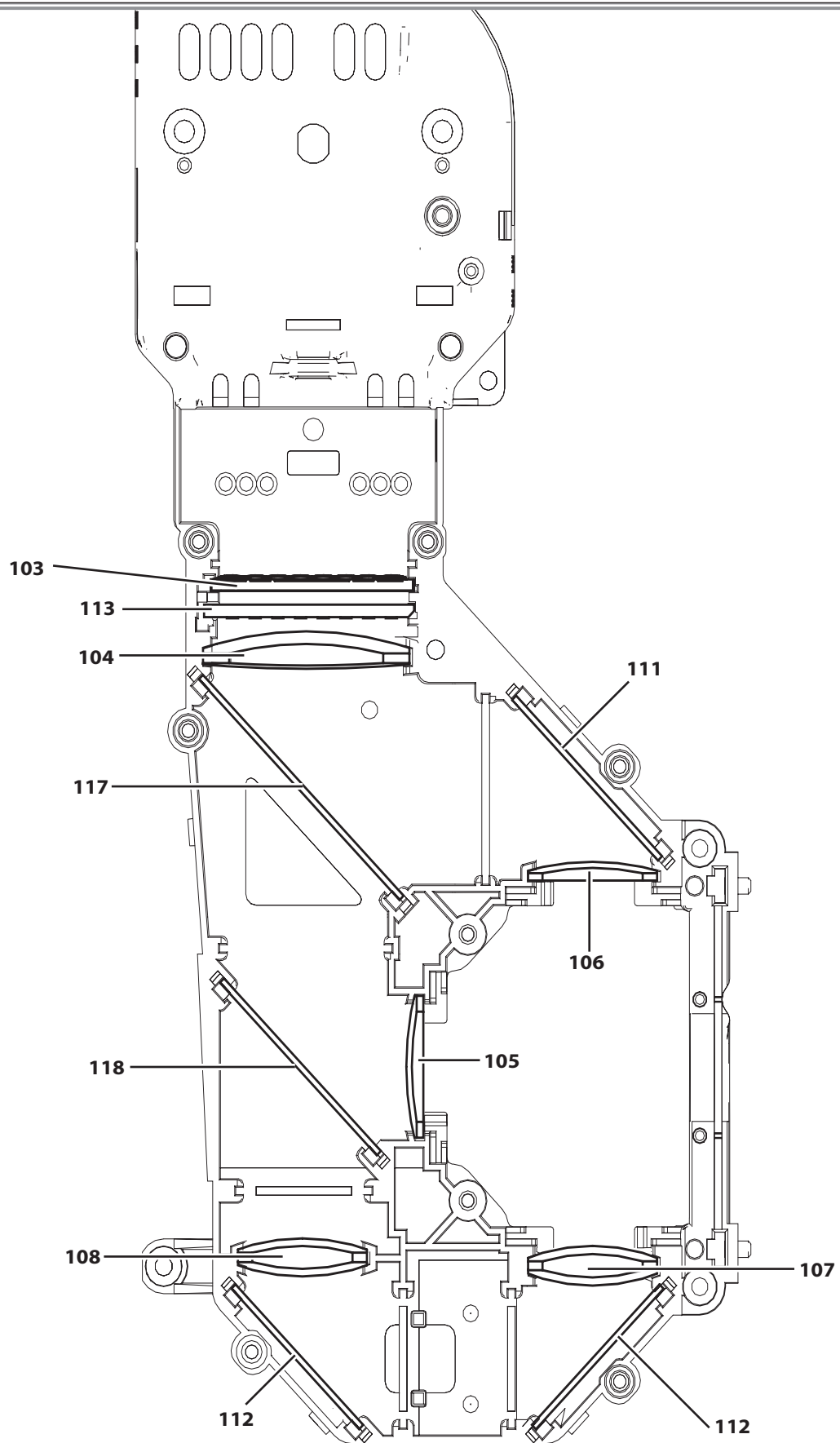






Integrator Lens In





- 108 -

Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XE50	KL3-XE5000

**These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KL3_XE5000 models PLC-XE50.
File with the service manual No. SM5110899-00**

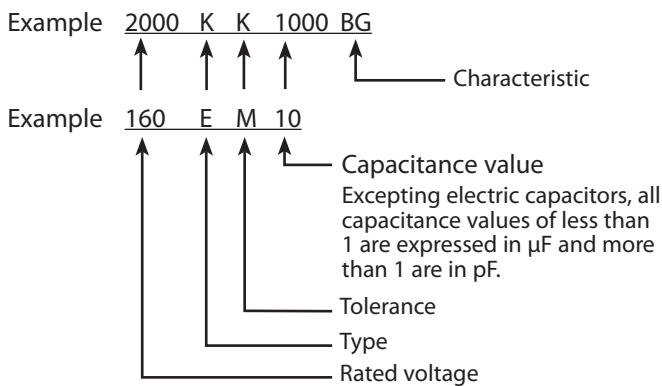
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



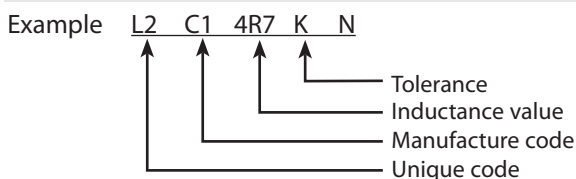
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metallized polypropylene
H	Metallized polypropylene
B	Ceramic (semiconductor)
G	Metallized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

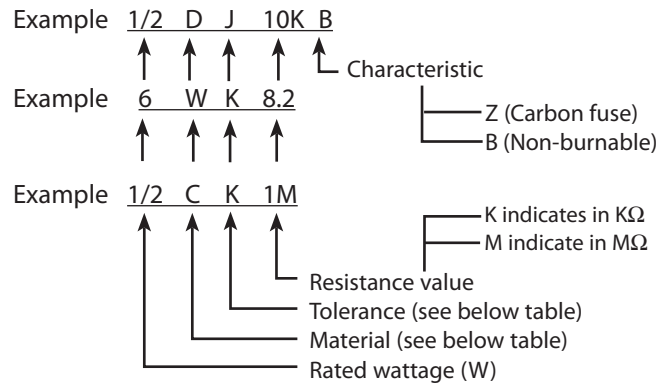
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1S5133, 1N4148

Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

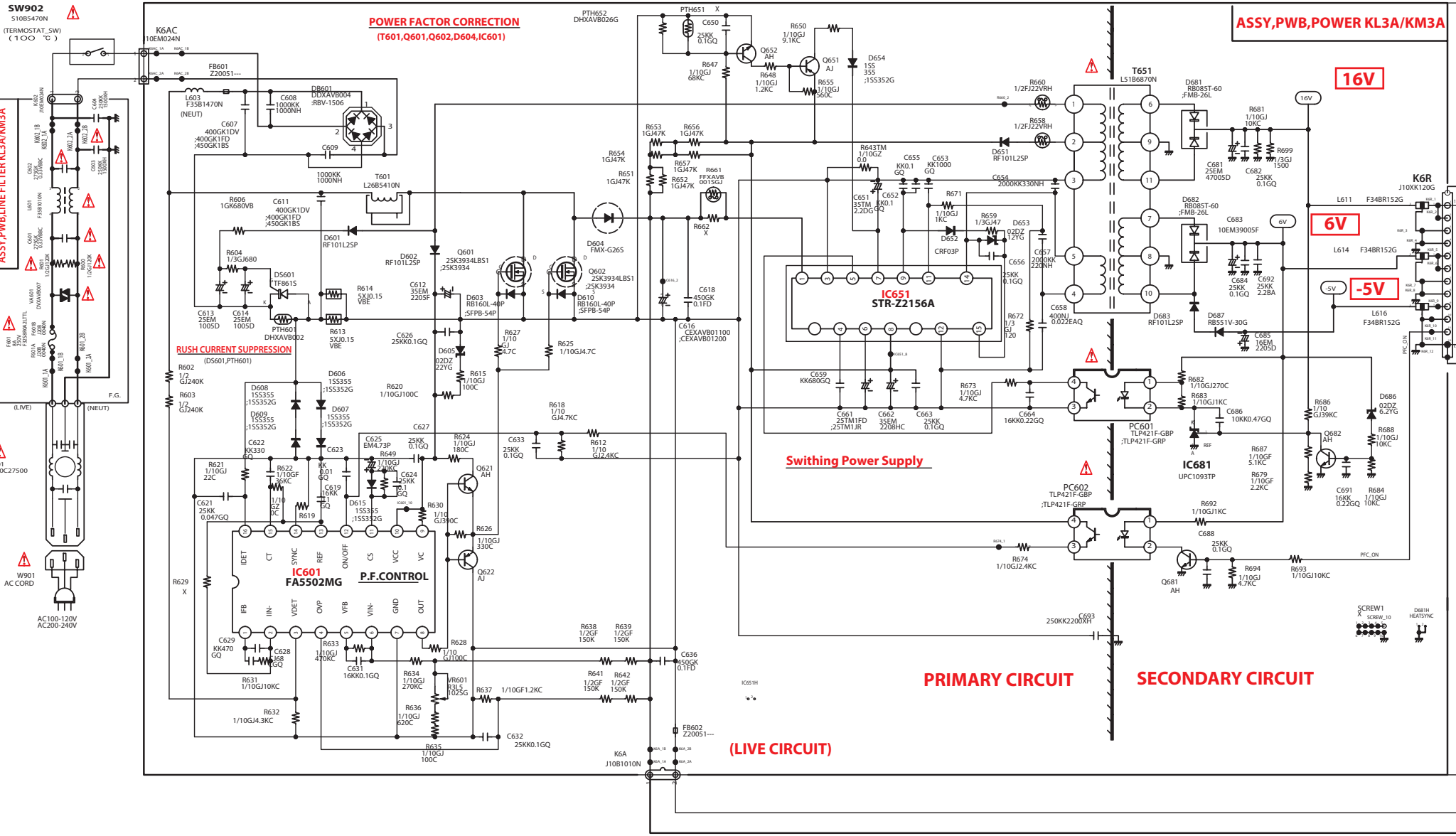
(2) PNP type

Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

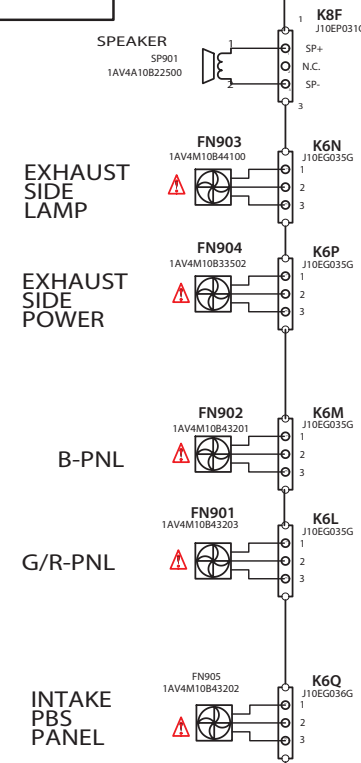
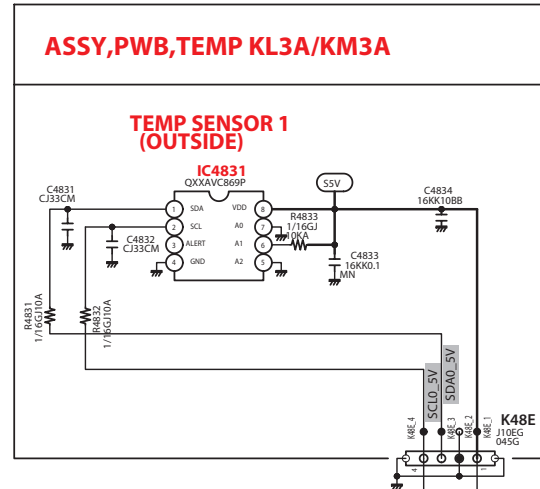
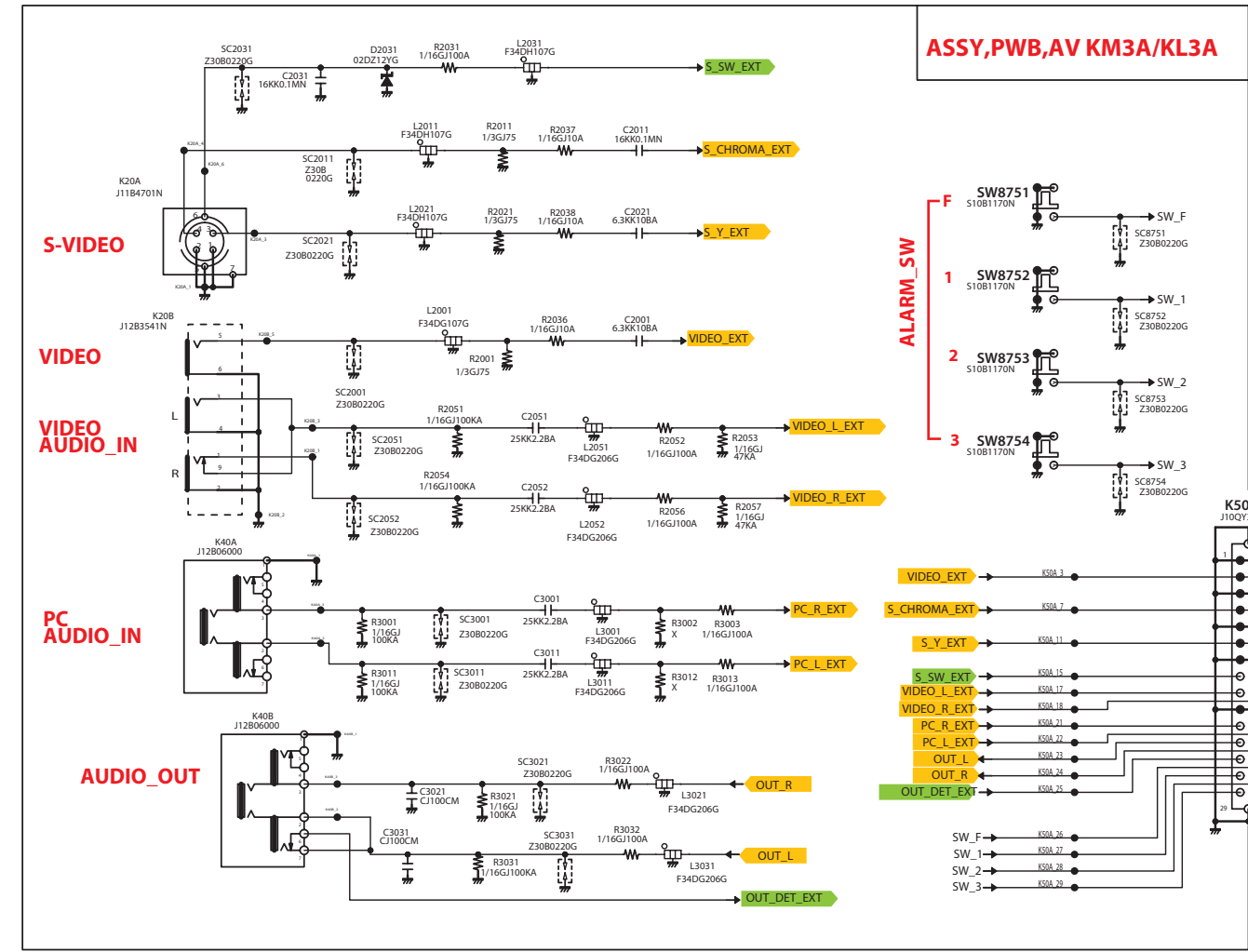
(3) Chip type

Mark	Type number
--	2SA1179N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	L6, L7 R, S

Schematic Diagrams



CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accidend.



CAUTION

Components indicated by a mark in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

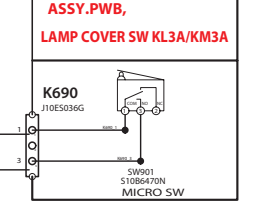
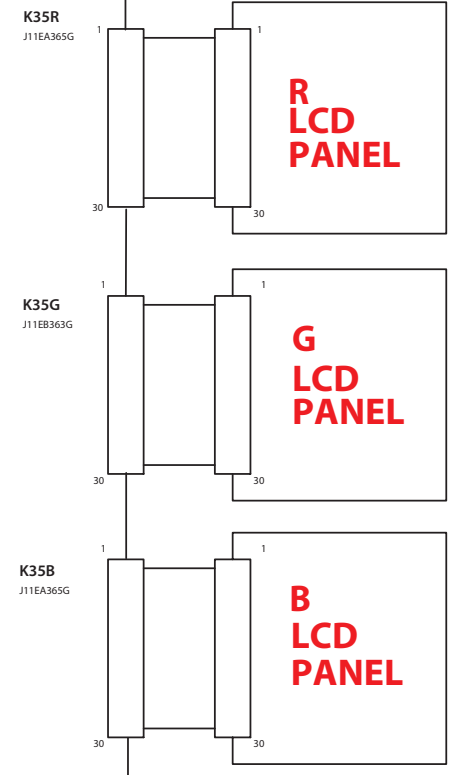
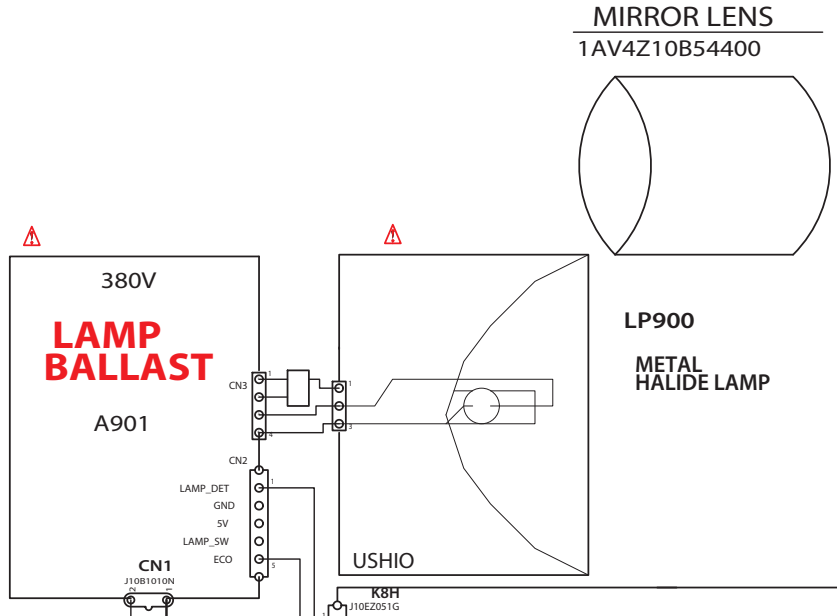
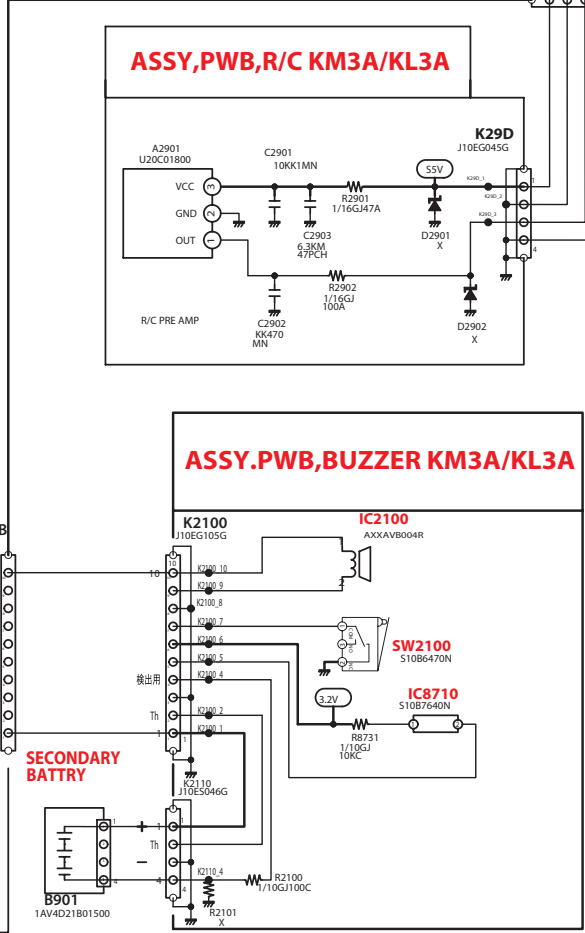
This projector is isolated AC line by using the internal converter transformer.

Please pay attention to the following notes in servicing.

(1) Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.

(2) Do not shorten the circuit between hot and cold sides.

(3) The grounding lead must be connected to the ground of the same circuit when measuring of voltage and waveforms.





A
B
C
D
E
F
G
H
I
J
K
L

A
B
C
D
E
F
G
H
I
J
K
L

LED

KEY SW

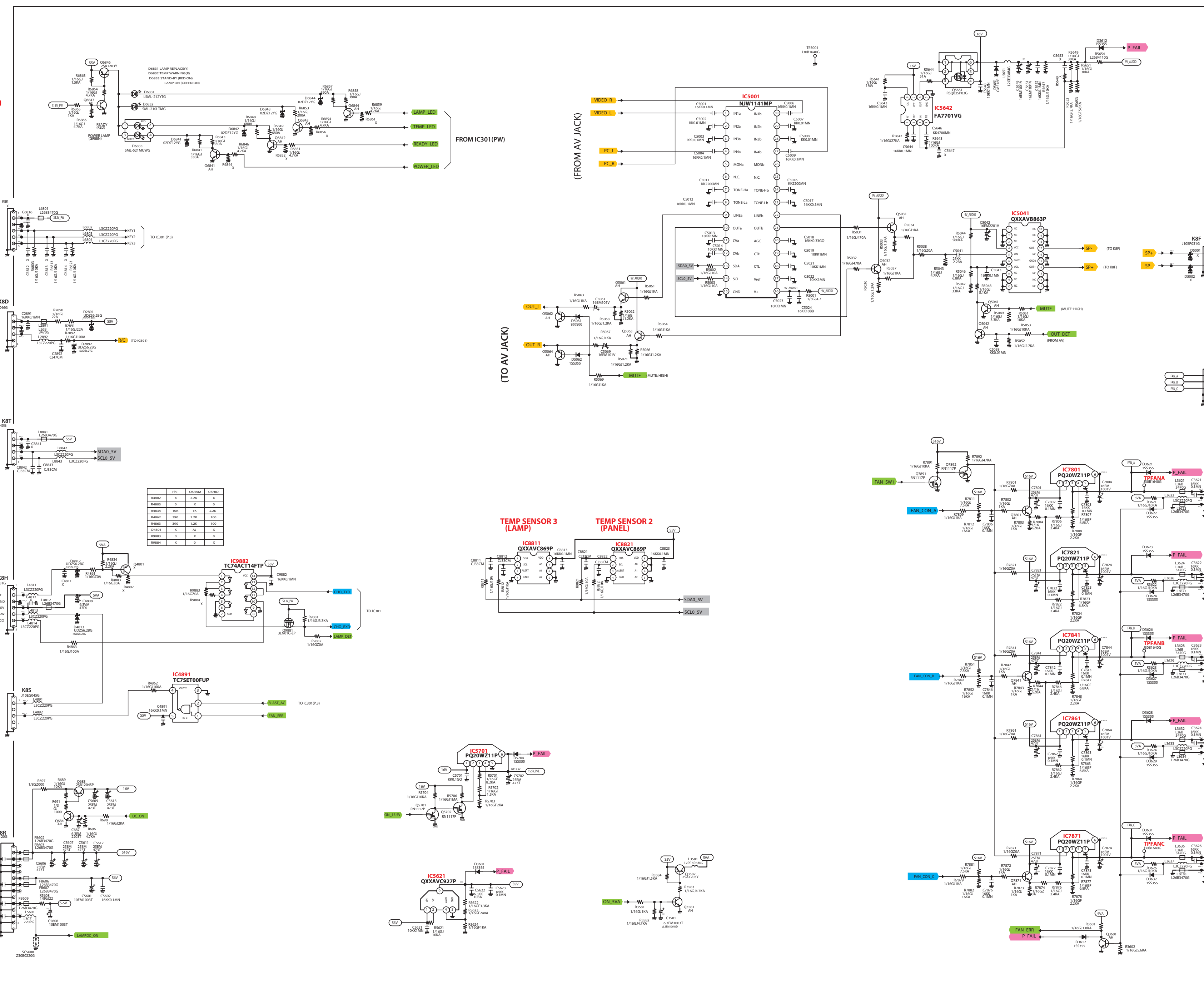
R/C

TEMP. SENSOR

LAMP BALAST

LAMP COVER SW

POWER



VIDEO R

VIDEO L

PC L

PC R

FROM AV JACK

TO AV JACK

OUT L

OUT R

MUTE

MUTE HIGH

TEMP SENSOR 3 (LAMP)

TEMP SENSOR 2 (PANEL)

SDA0_V

SCL0_V

IC5701

IC5702

IC5703

IC5704

IC5705

IC5706

IC5707

IC5708

IC5709

IC5710

IC5711

IC5712

IC5713

IC5714

IC5715

IC5716

IC5717

IC5718

IC5719

IC5720

IC5721

IC5722

IC5723

IC5724

IC5725

IC5726

IC5727

IC5728

IC5729

IC5730

IC5731

IC5732

IC5733

IC5734

IC5735

IC5736

IC5737

IC5738

IC5739

IC5740

IC5741

IC5742

IC5743

IC5744

IC5745

IC5746

IC5747

IC5748

IC5749

IC5750

IC5751

IC5752

IC5753

IC5754

IC5755

IC5756

IC5757

IC5758

IC5759

IC5760

IC5761

IC5762

IC5763

IC5764

IC5765

IC5766

IC5767

IC5768

IC5769

IC5770

IC5771

IC5772

IC5773

IC5774

IC5775

IC5776

IC5777

IC5778

IC5779

IC5780

IC5781

IC5782

IC5783

IC5784

IC5785

IC5786

IC5787

IC5788

IC5789

IC5790

IC5791

IC5792

IC5793

IC5794

IC5795

IC5796

IC5797

IC5798

IC5799

IC5800

IC5801

IC5802

IC5803

IC5804

IC5805

IC5806

IC5807

IC5808

IC5809

IC5810

IC5811

IC5812

IC5813

IC5814

IC5815

IC5816

IC5817

IC5818

IC5819

IC5820

IC5821

IC5822

IC5823

IC5824

IC5825

IC5826

IC5827

IC5828

IC5829

IC5830

IC5831

IC5832

IC5833

IC5834

IC5835

IC5836

IC5837

IC5838

IC5839

IC5840

IC5841

IC5842

IC5843

IC5844

IC5845

IC5846

IC5847

IC5848

IC5849

IC5850

IC5851

IC5852

IC5853

IC5854

IC5855

IC5856

IC5857

IC5858

IC5859

IC5860

IC5861

IC5862

IC5863

IC5864

IC5865

IC5866

IC5867

IC5868

IC5869

IC5870

IC5871

IC5872

IC5873

IC5874

IC5875

IC5876

IC5877

IC5878

IC5879

IC5880

IC5881

IC5882

IC5883

IC5884

IC5885

IC5886

IC5887

IC5888

IC5889

IC5890

IC5891

IC5892

IC5893

IC5894

IC5895

IC5896

IC5897

IC5898

IC5899

IC5900

IC5901

IC5902

IC5903

IC5904

IC5905

IC5906

IC5907

IC5908

IC5909

IC5910

IC5911

IC5912

IC5913

IC5914

IC5915

IC5916

IC5917

IC5918

IC5919

IC5920

IC5921

IC5922

IC5923

IC5924

IC5925

IC5926

IC5927

IC5928

IC5929

IC5930

IC5931

IC5932

IC5933

IC5934

IC5935

IC5936

IC5937

IC5938

IC5939

IC5940

IC5941

IC5942

IC5943

IC5944

IC5945

IC5946

IC5947

IC5948

IC5949

IC5950

IC5951

IC5952

IC5953

IC5954

IC5955

IC5956

IC5957

IC5958

IC5959

IC5960

IC5961

IC5962

IC5963

IC5964

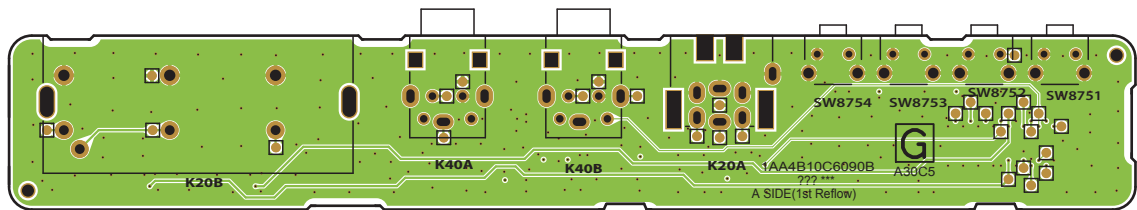
IC5965

IC5966

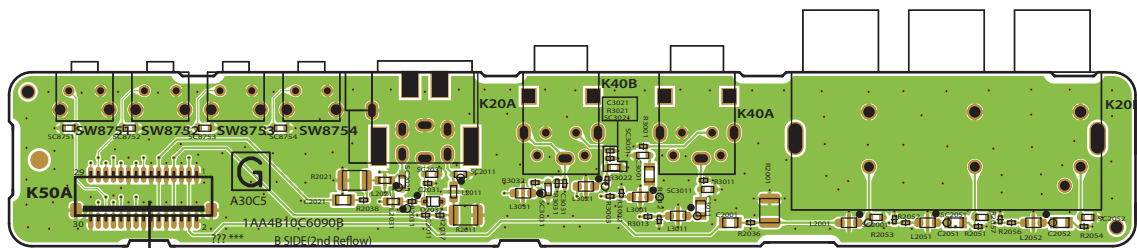
IC59

■ Printed Wiring Board Diagrams

AV (SIDE : A)

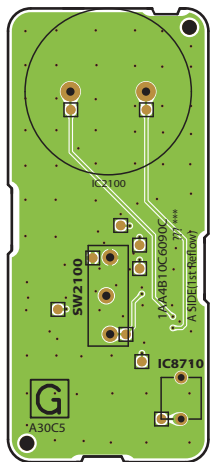


AV (SIDE : B)



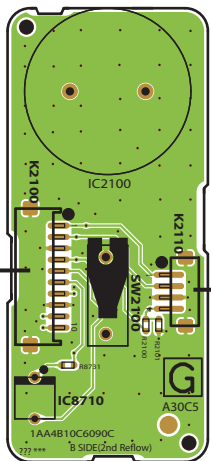
MAIN
"K10A"

BUZZER (SIDE : A)



BUZZER (SIDE : B)

SECONDARY
BATTERY



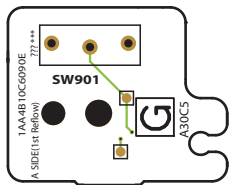
MAIN
"K8B"

⚠ CAUTION

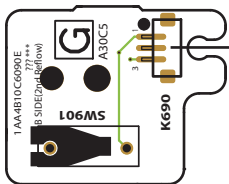
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

LAMP COVER SW (SIDE : A)

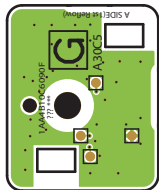


LAMP COVER SW (SIDE : B)

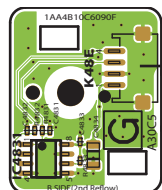


MAIN
"K8S"

TEMP (SIDE : A)

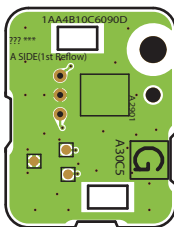


TEMP (SIDE : B)

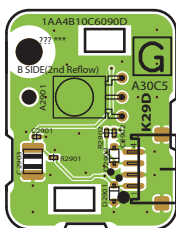


MAIN
"K8S"

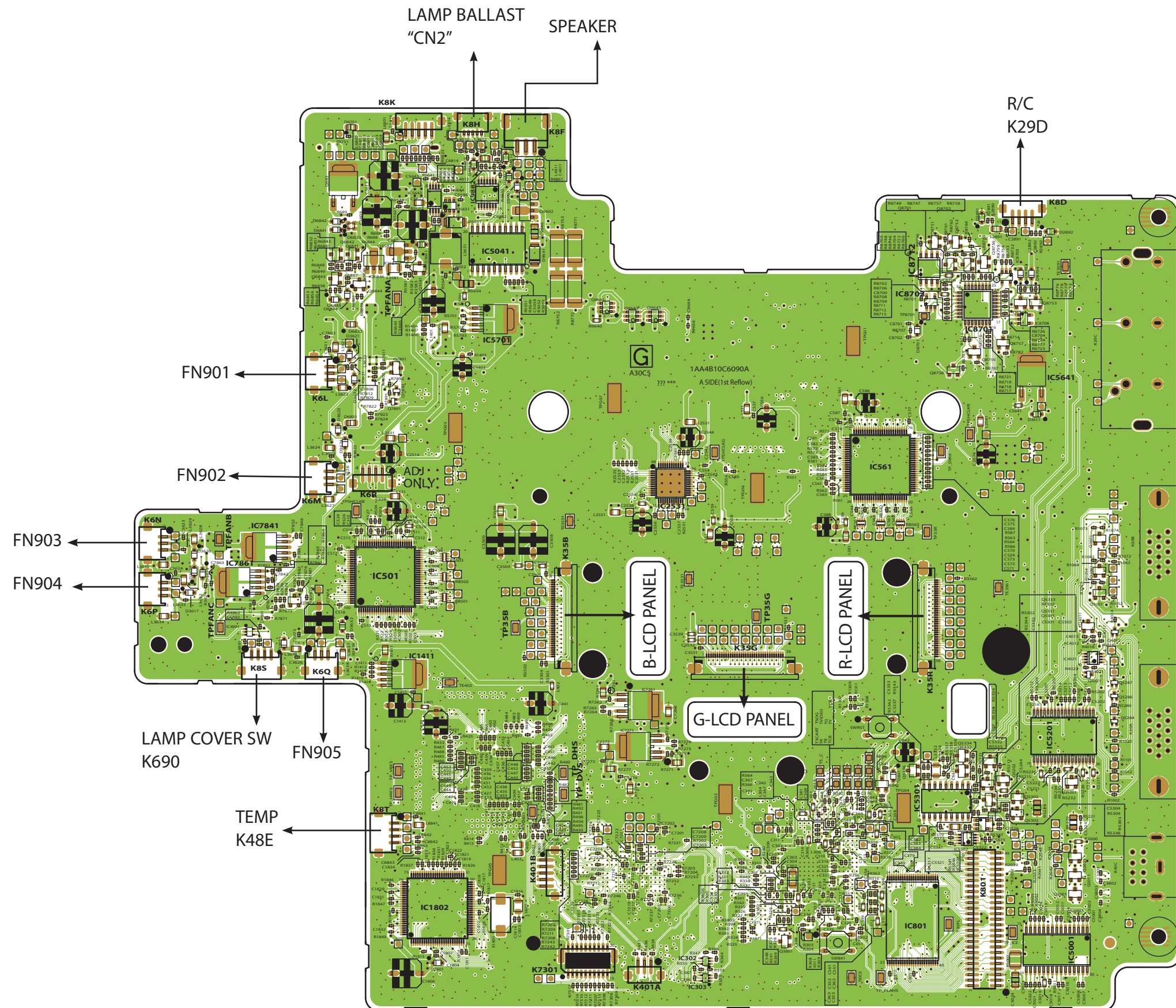
R/C (SIDE : A)



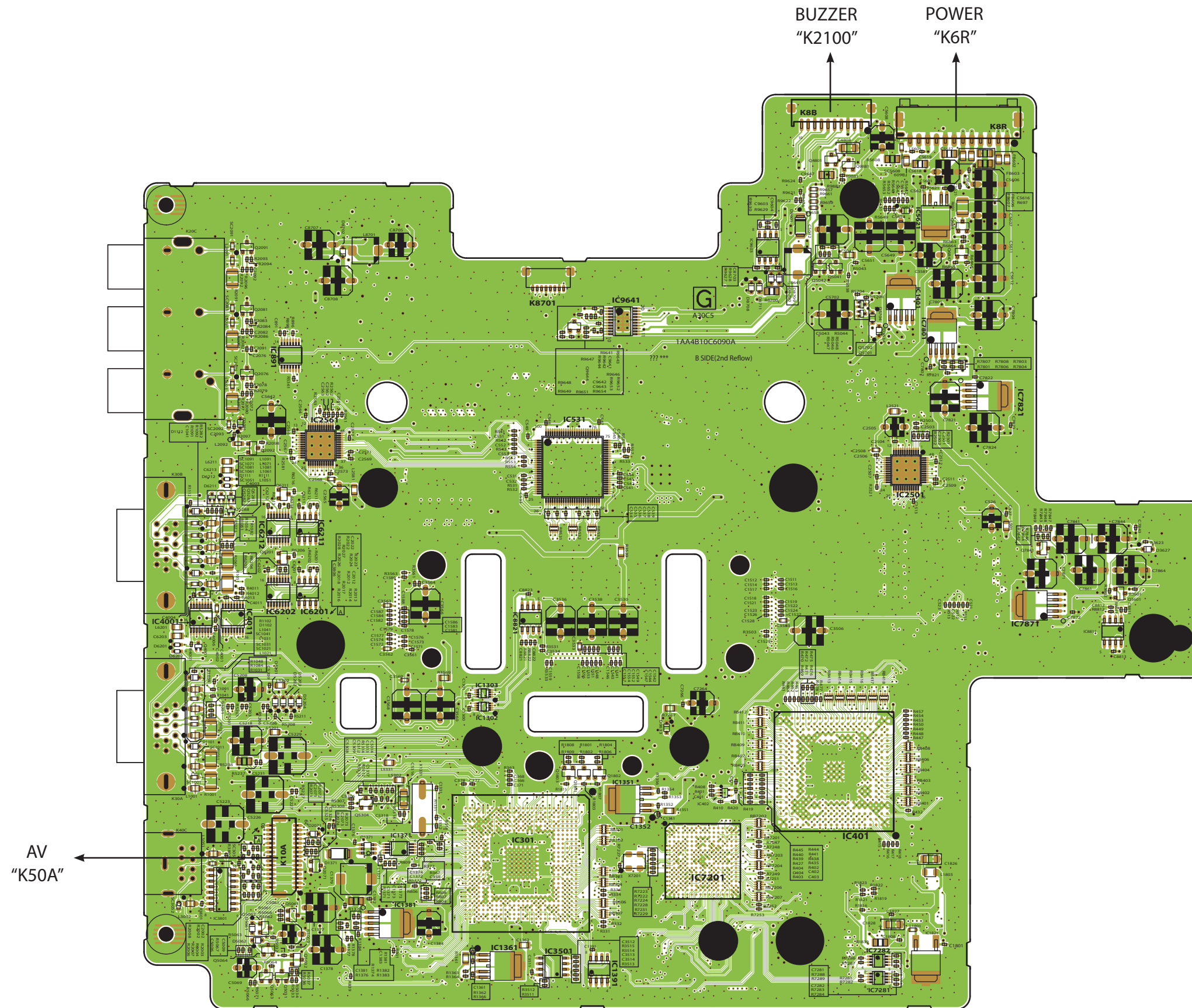
R/C (SIDE : B)



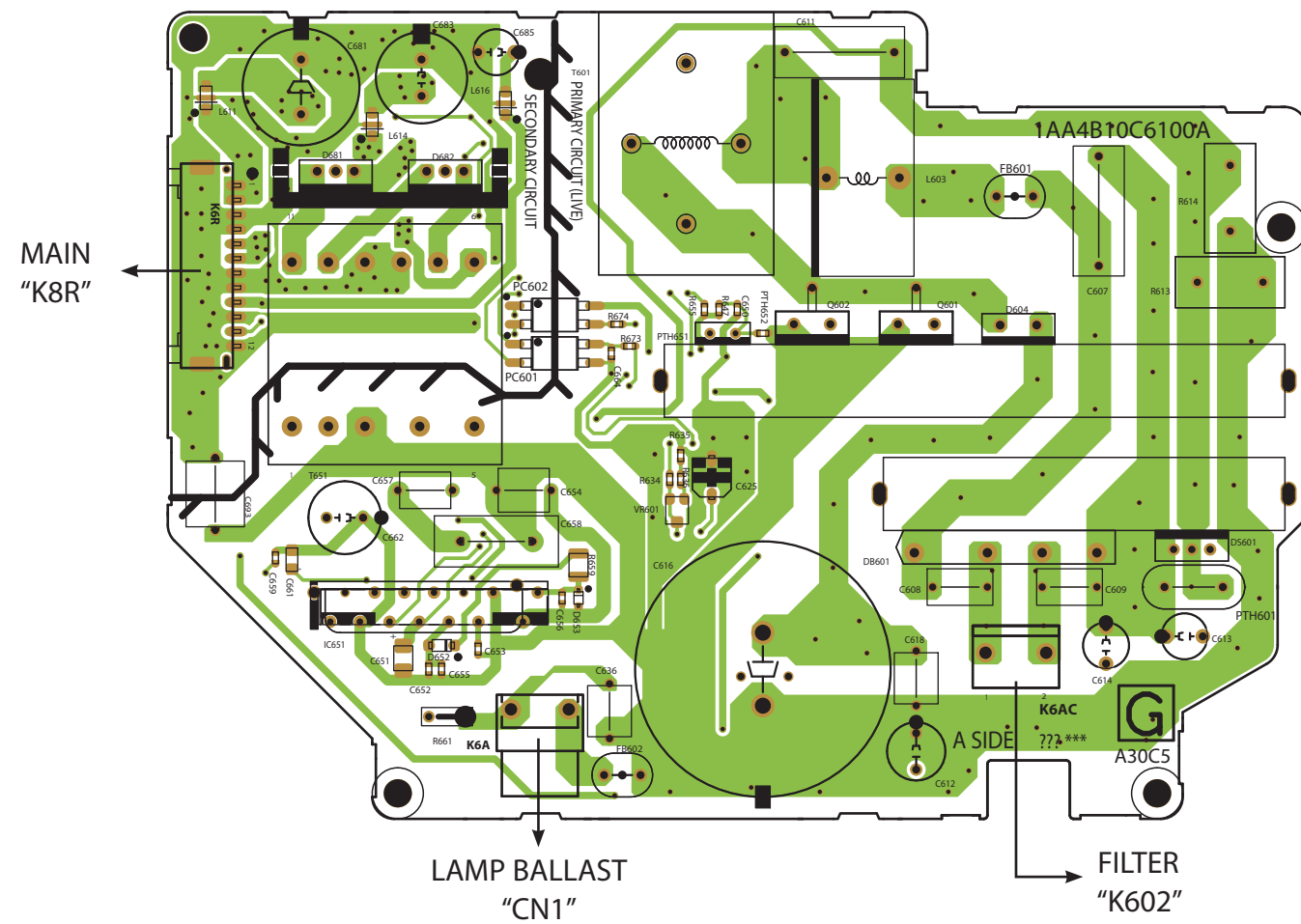
MAIN
"K8D"



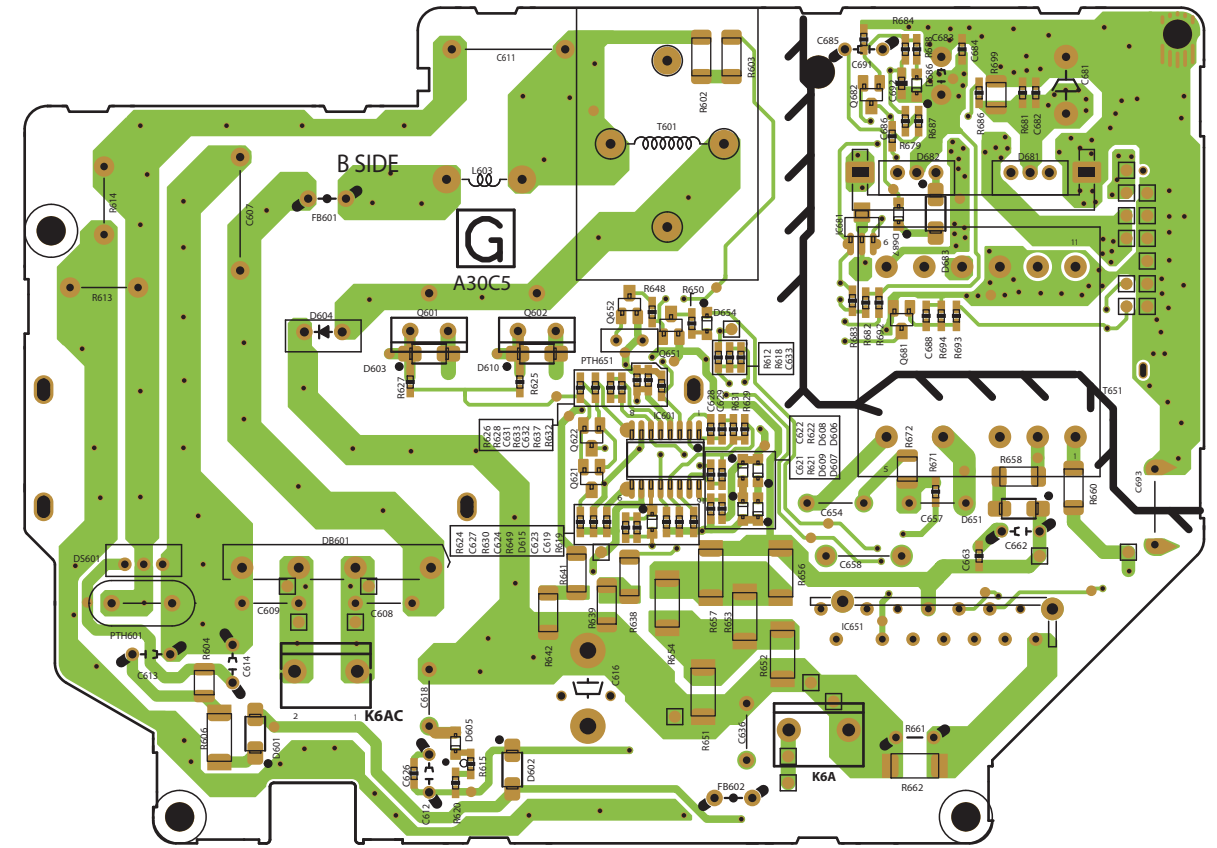
MAIN (SIDE : B)



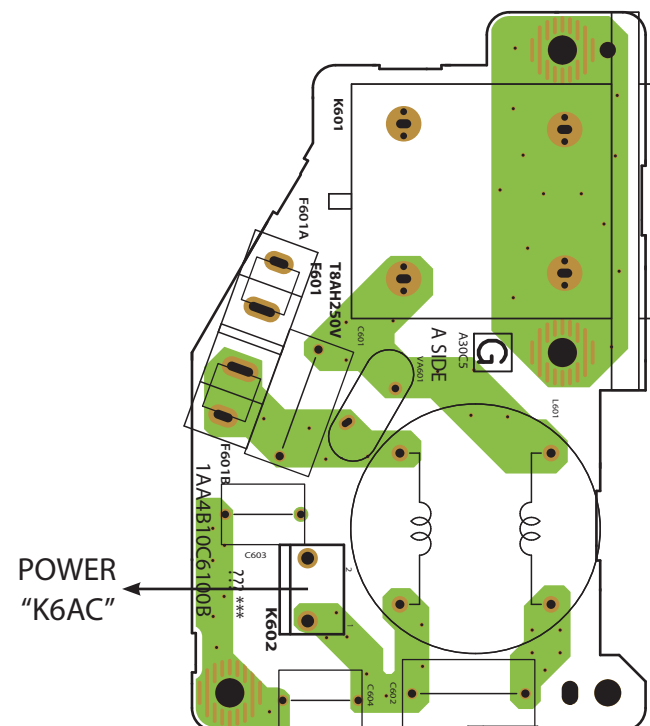
POWER (SIDE : A)



POWER (SIDE : B)



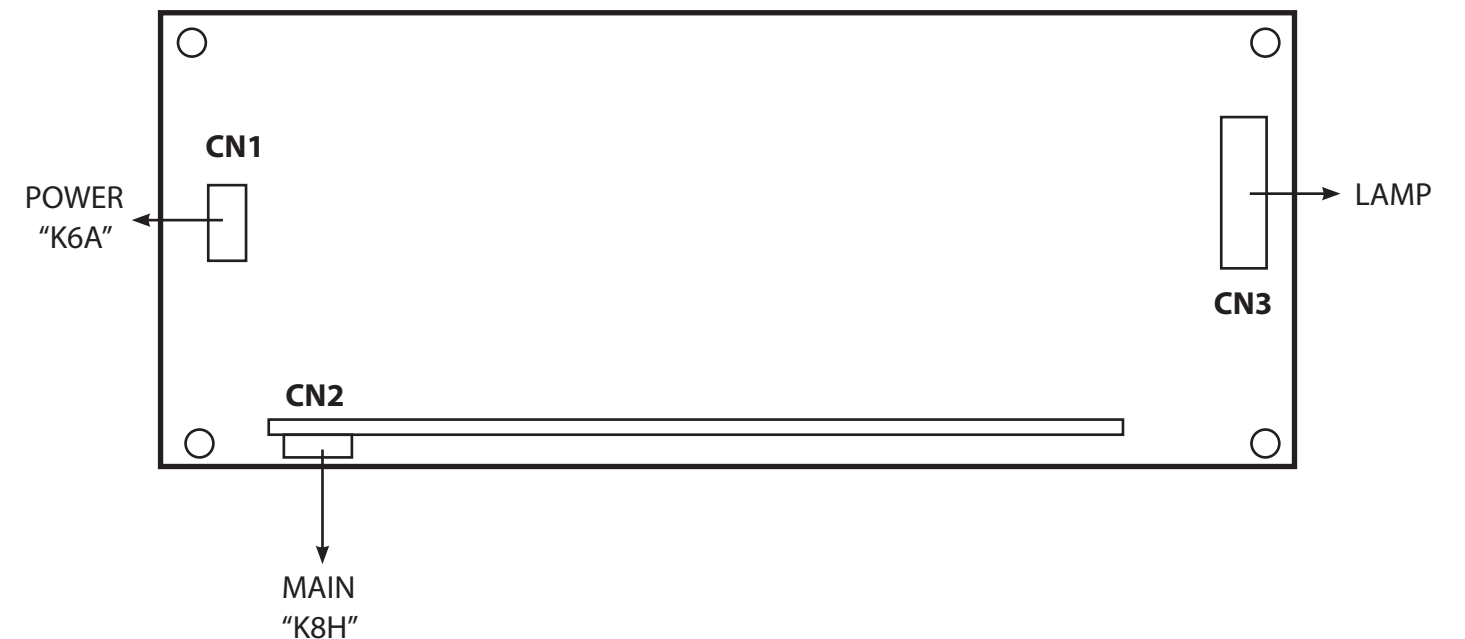
FILTER (SIDE : A)



FILTER (SIDE : B)



LAMP BALLAST (SIDE : A)



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment. Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased. The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur. Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.